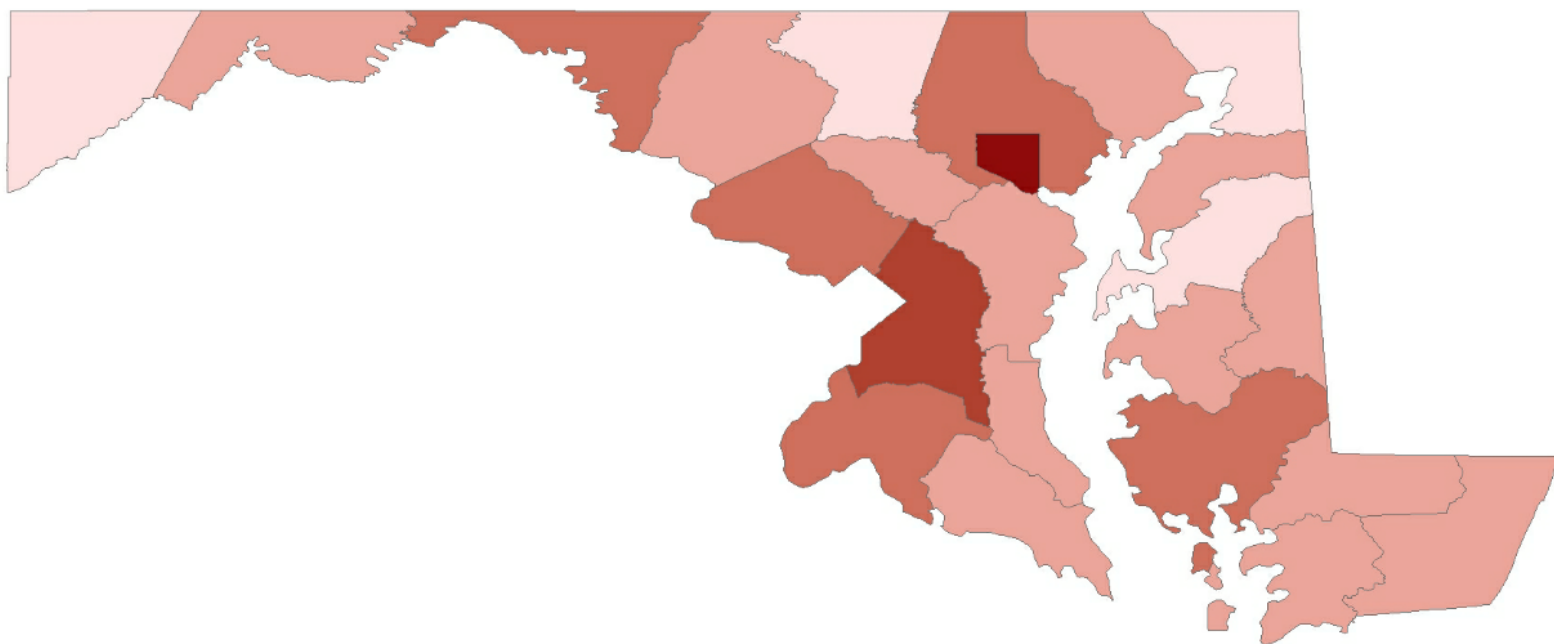


2015



Maryland HIV Annual Epidemiological Profile

Data reported through June 30, 2016

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Epidemiology and Outbreak Response Bureau
Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory Chiefs are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website:

<http://phpa.dhmh.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 6/30/2016. Nationally, it has been estimated that 13.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 16.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. It is important to note that surveillance is an ongoing systematic collection, analysis, interpretation, and dissemination of laboratory data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

In addition to providing estimates of prevalent cases by residence at HIV diagnosis, this epidemiological profile includes estimates for HIV cases whose current residence as of 6/30/2016 was in Maryland. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2016. Restricting

address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may be residents of Maryland but have fallen out of care during the most recent seven years. Current residence utilizes addresses as recent as 2016 but uses laboratory data from 2015 to allow for laboratory reporting.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2015 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2015-12/31/2015, as reported by name through 6/30/2016.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on

6/30/2016 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2015 as reported by name through 6/30/2016.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4 cells per microliter of blood. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2016.

Population data by sex, age, and race/ethnicity are from the July 1, 2015 U.S. Census Estimates and by country-of-birth from the 2014 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2016 HIV Surveillance Supplemental Report published July 2016. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM (Men who have Sex with Men): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

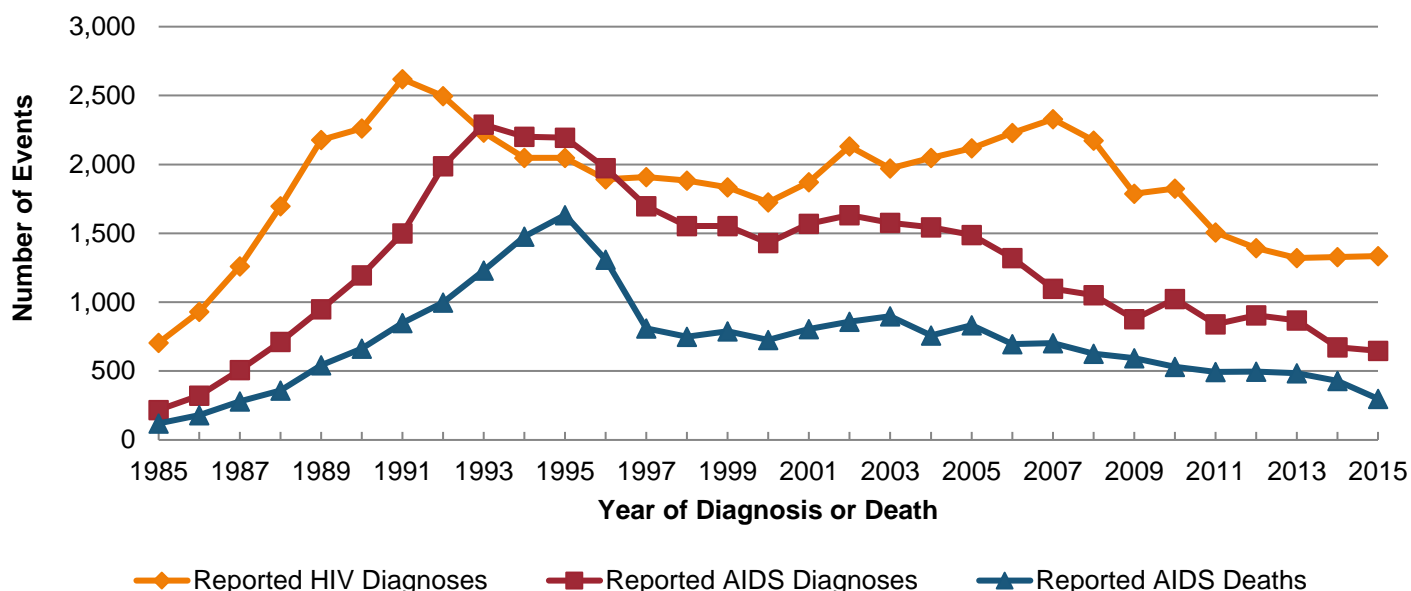
Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Section II – Trends 1985-2015

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2015, Reported through 6/30/2016

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2015 as Reported through 6/30/2016



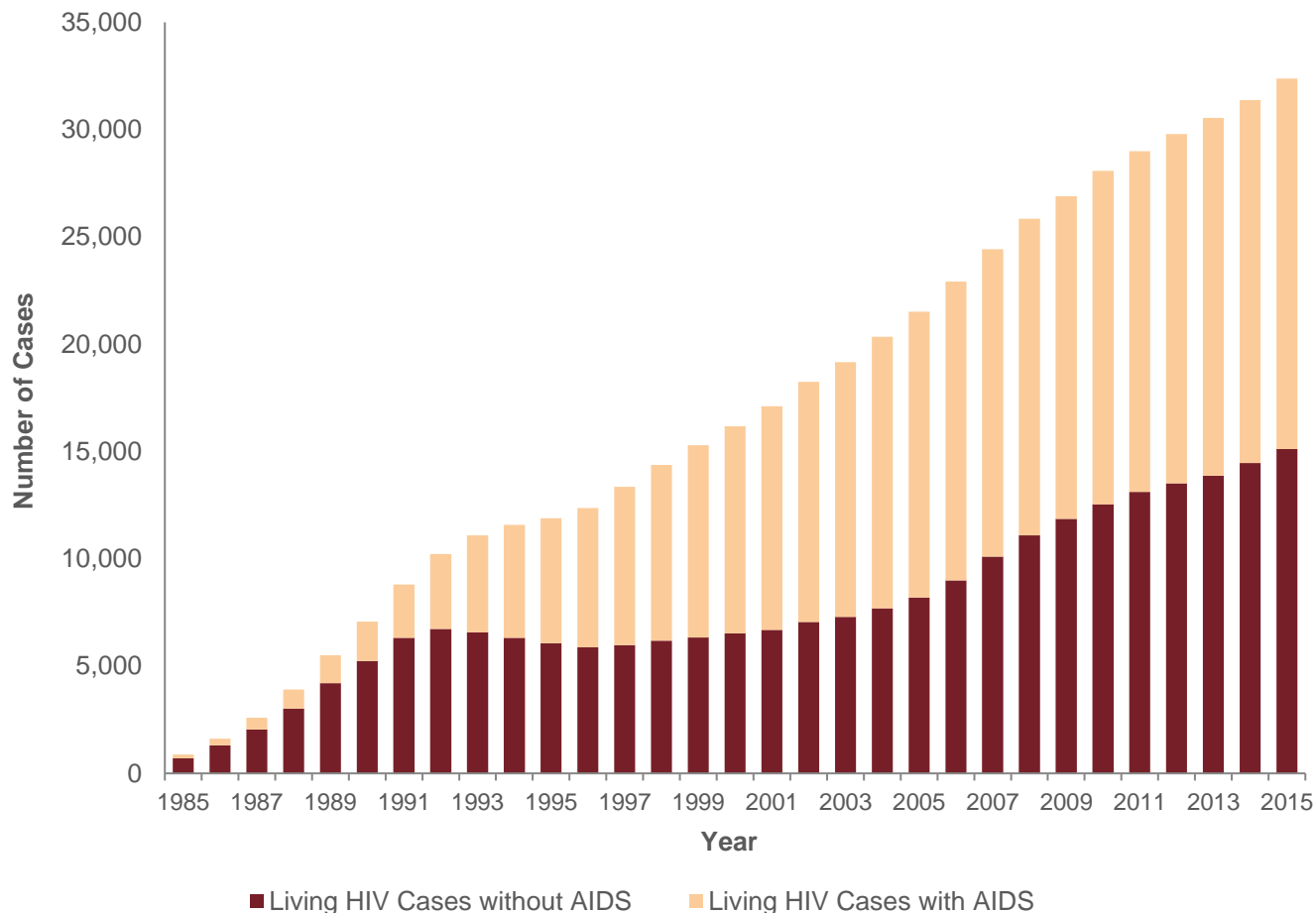
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	357	148	72	2000	1,726	1,429	726
1985	705	218	120	2001	1,871	1,570	806
1986	931	321	180	2002	2,132	1,632	858
1987	1,261	508	280	2003	1,971	1,576	898
1988	1,696	711	359	2004	2,047	1,544	759
1989	2,177	948	542	2005	2,117	1,488	834
1990	2,262	1,195	663	2006	2,230	1,320	696
1991	2,620	1,500	848	2007	2,328	1,097	703
1992	2,495	1,988	998	2008	2,173	1,051	627
1993	2,232	2,289	1,231	2009	1,787	877	593
1994	2,048	2,201	1,477	2010	1,825	1,023	531
1995	2,047	2,193	1,633	2011	1,507	839	493
1996	1,893	1,974	1,308	2012	1,393	905	495
1997	1,908	1,698	809	2013	1,320	868	484
1998	1,883	1,554	749	2014	1,328	672	428*
1999	1,835	1,554	788	2015	1,334	646	298*
				TOTAL	57,439	39,537	22,286

*2014-2015 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2015, Reported through 6/30/2016

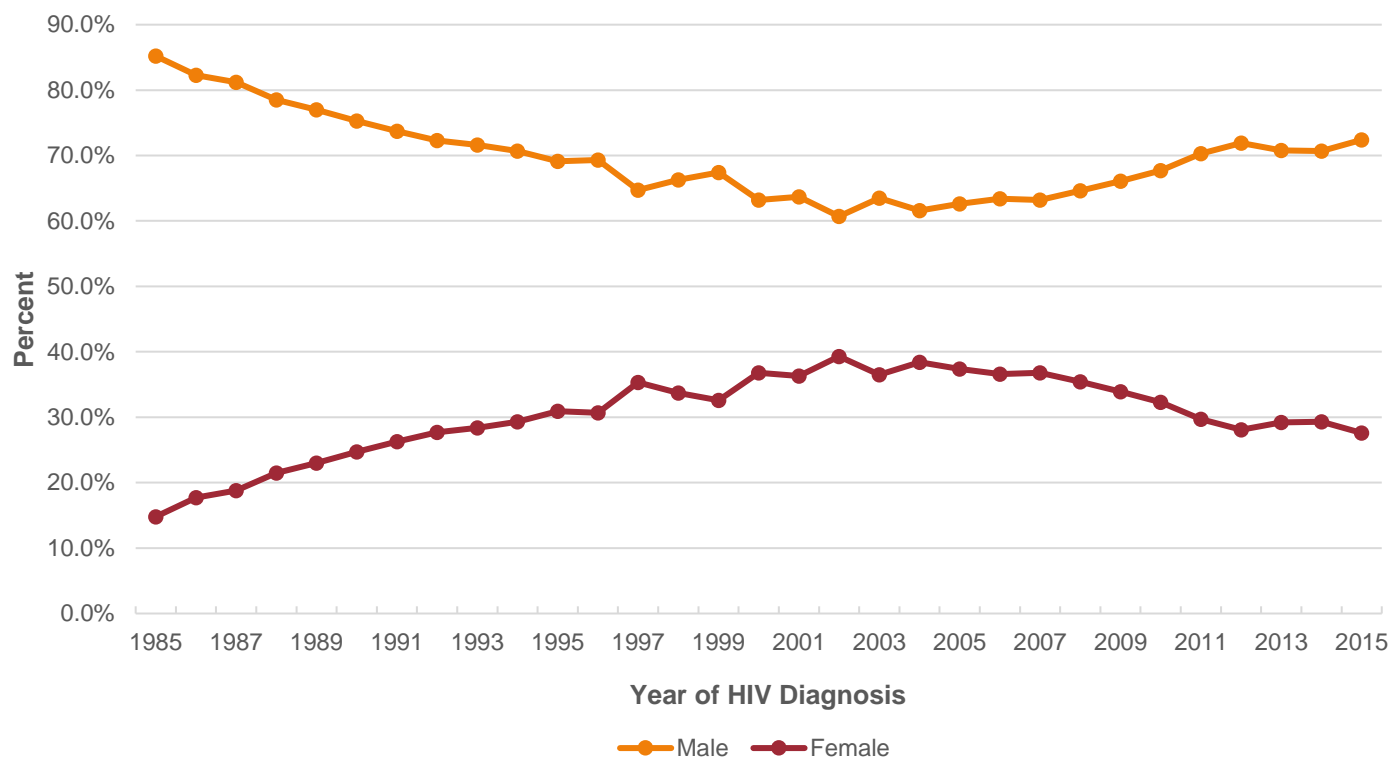
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2015, as Reported through 6/30/2016



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	700	173	873	2000	6,525	9,652	16,177
1986	1,304	314	1,618	2001	6,689	10,418	17,107
1987	2,050	543	2,593	2002	7,060	11,192	18,252
1988	3,018	895	3,913	2003	7,293	11,870	19,163
1989	4,207	1,301	5,508	2004	7,689	12,655	20,344
1990	5,245	1,833	7,078	2005	8,202	13,309	21,511
1991	6,320	2,485	8,805	2006	8,987	13,934	22,921
1992	6,738	3,475	10,213	2007	10,104	14,328	24,432
1993	6,566	4,533	11,099	2008	11,096	14,752	25,848
1994	6,324	5,259	11,583	2009	11,860	15,036	26,896
1995	6,065	5,821	11,886	2010	12,546	15,528	28,074
1996	5,876	6,489	12,365	2011	13,123	15,874	28,997
1997	5,973	7,378	13,351	2012	13,513	16,284	29,797
1998	6,185	8,183	14,368	2013	13,874	16,668	30,542
1999	6,337	8,949	15,286	2014	14,469	16,912	31,381
				2015	15,115	17,260	32,375

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2015, Reported through 6/30/2016

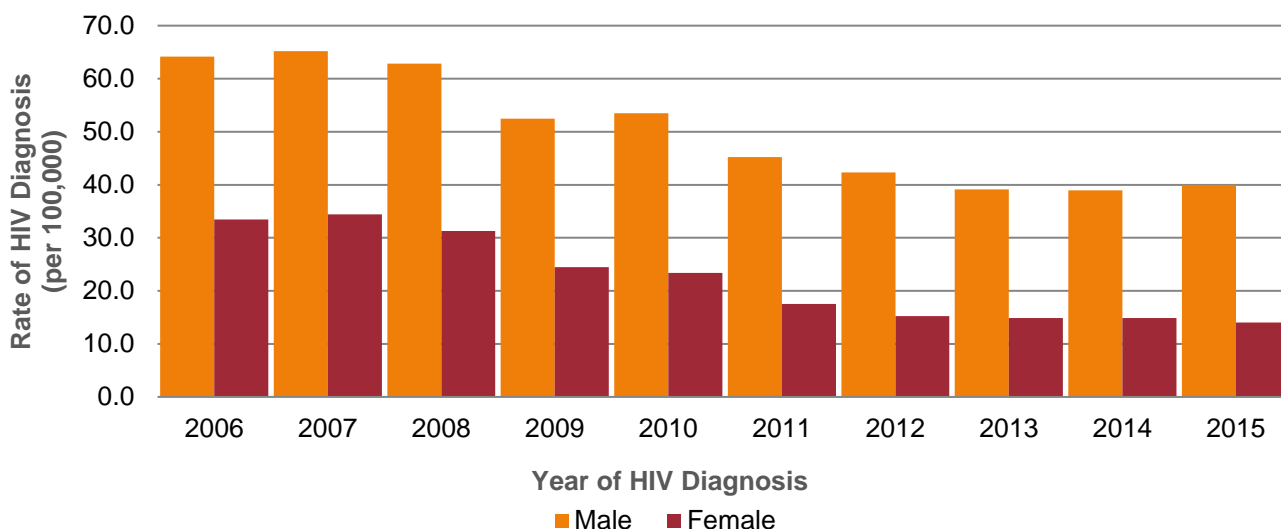
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES			YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES		
	No.	% Male	% Female		No.	% Male	% Female
<1985	353	87.8%	12.2%	2000	1,714	63.2%	36.8%
1985	691	85.2%	14.8%	2001	1,857	63.7%	36.3%
1986	917	82.3%	17.7%	2002	2,112	60.7%	39.3%
1987	1,240	81.2%	18.8%	2003	1,966	63.5%	36.5%
1988	1,667	78.5%	21.5%	2004	2,037	61.6%	38.4%
1989	2,143	77.0%	23.0%	2005	2,108	62.6%	37.4%
1990	2,210	75.3%	24.7%	2006	2,214	63.4%	36.6%
1991	2,566	73.7%	26.3%	2007	2,274	63.2%	36.8%
1992	2,433	72.3%	27.7%	2008	2,159	64.6%	35.4%
1993	2,177	71.6%	28.4%	2009	1,777	66.1%	33.9%
1994	2,007	70.7%	29.3%	2010	1,821	67.7%	32.3%
1995	2,018	69.1%	30.9%	2011	1,500	70.3%	29.7%
1996	1,857	69.3%	30.7%	2012	1,390	71.9%	28.1%
1997	1,892	64.7%	35.3%	2013	1,317	70.8%	29.2%
1998	1,863	66.3%	33.7%	2014	1,322	70.7%	29.3%
1999	1,806	67.4%	32.6%	2015	1,334	72.4%	27.6%
				TOTAL	56,742	69.0%	31.0%

Figure 3A – Trends in Rates of Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 2006-2015, Reported through 6/30/2016

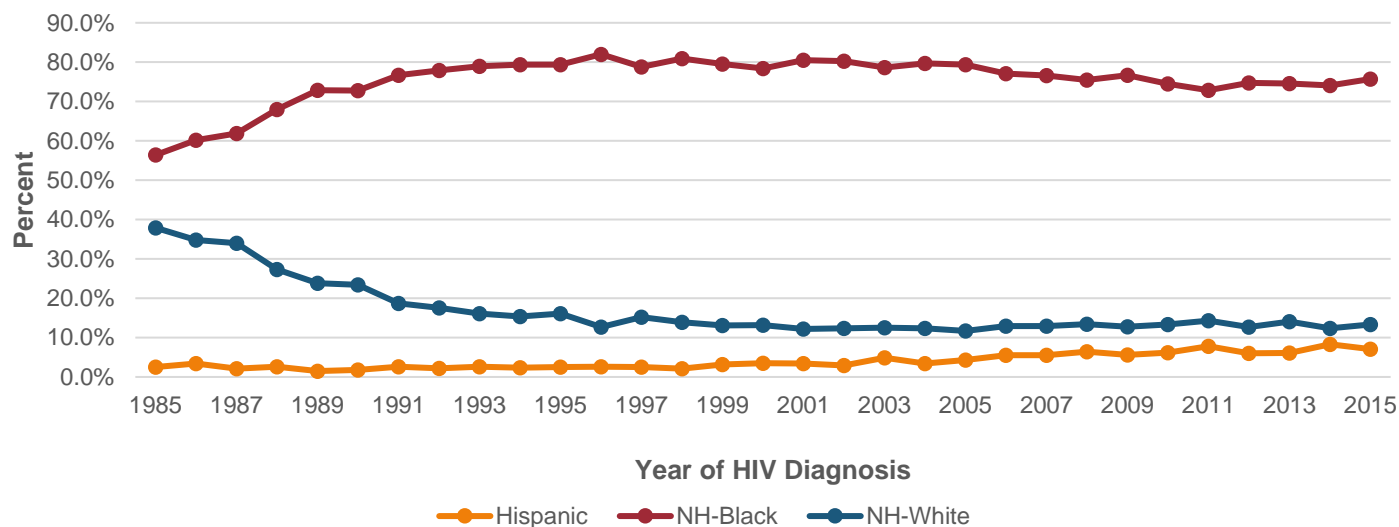
Rate by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2006 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	TOTAL NO. OF HIV DIAGNOSES	SEX AT BIRTH	
		MALE	FEMALE
2006	2,214	Population	2,188,433
		Cases	1,404
		Rate	64.1
2007	2,274	Population	2,204,771
		Cases	1,437
		Rate	65.2
2008	2,159	Population	2,219,919
		Cases	1,395
		Rate	62.8
2009	1,777	Population	2,238,829
		Cases	1,175
		Rate	52.5
2010	1,821	Population	2,303,746
		Cases	1,233
		Rate	53.5
2011	1,500	Population	2,331,513
		Cases	1,055
		Rate	45.2
2012	1,390	Population	2,360,279
		Cases	999
		Rate	42.3
2013	1,317	Population	2,382,313
		Cases	932
		Rate	39.1
2014	1,322	Population	2,401,118
		Cases	935
		Rate	38.9
2015	1,334	Population	2,417,134
		Cases	966
		Rate	40.0

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2015, Reported through 6/30/2016

Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016

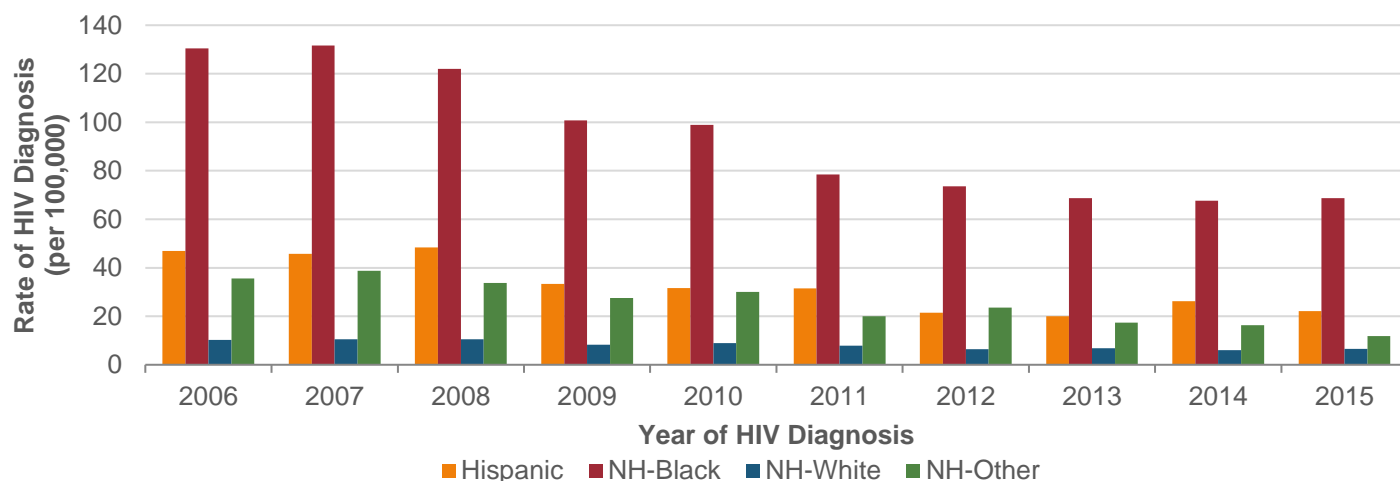


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES			
	No.	% Hispanic	% Non-Hispanic Black, only	% Non-Hispanic White, only
<1985	353	2.3%	56.7%	39.4%
1985	691	2.5%	56.4%	37.9%
1986	917	3.4%	60.2%	34.8%
1987	1,240	2.1%	61.9%	34.0%
1988	1,667	2.6%	68.0%	27.3%
1989	2,143	1.5%	72.9%	23.8%
1990	2,210	1.8%	72.8%	23.4%
1991	2,566	2.6%	76.7%	18.7%
1992	2,433	2.2%	77.9%	17.6%
1993	2,177	2.6%	79.0%	16.1%
1994	2,007	2.4%	79.4%	15.4%
1995	2,018	2.5%	79.4%	16.1%
1996	1,857	2.6%	82.0%	12.7%
1997	1,892	2.5%	78.8%	15.2%
1998	1,863	2.1%	80.9%	13.9%
1999	1,806	3.2%	79.5%	13.1%
2000	1,714	3.5%	78.4%	13.2%
2001	1,857	3.4%	80.5%	12.2%
2002	2,112	2.9%	80.3%	12.4%
2003	1,966	4.9%	78.6%	12.5%
2004	2,037	3.4%	79.7%	12.4%
2005	2,108	4.3%	79.4%	11.7%
2006	2,214	5.5%	77.1%	12.9%
2007	2,274	5.5%	76.6%	12.9%
2008	2,159	6.4%	75.5%	13.4%
2009	1,777	5.6%	76.7%	12.8%
2010	1,821	6.2%	74.5%	13.3%
2011	1,500	7.8%	72.9%	14.3%
2012	1,390	6.0%	74.7%	12.7%
2013	1,317	6.1%	74.6%	14.1%
2014	1,322	8.3%	74.1%	12.4%
2015	1,334	7.1%	75.7%	13.3%
TOTAL	56,742	3.9%	76.2%	16.3%

Figure 4A – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 2006-2015, Reported through 6/30/2016

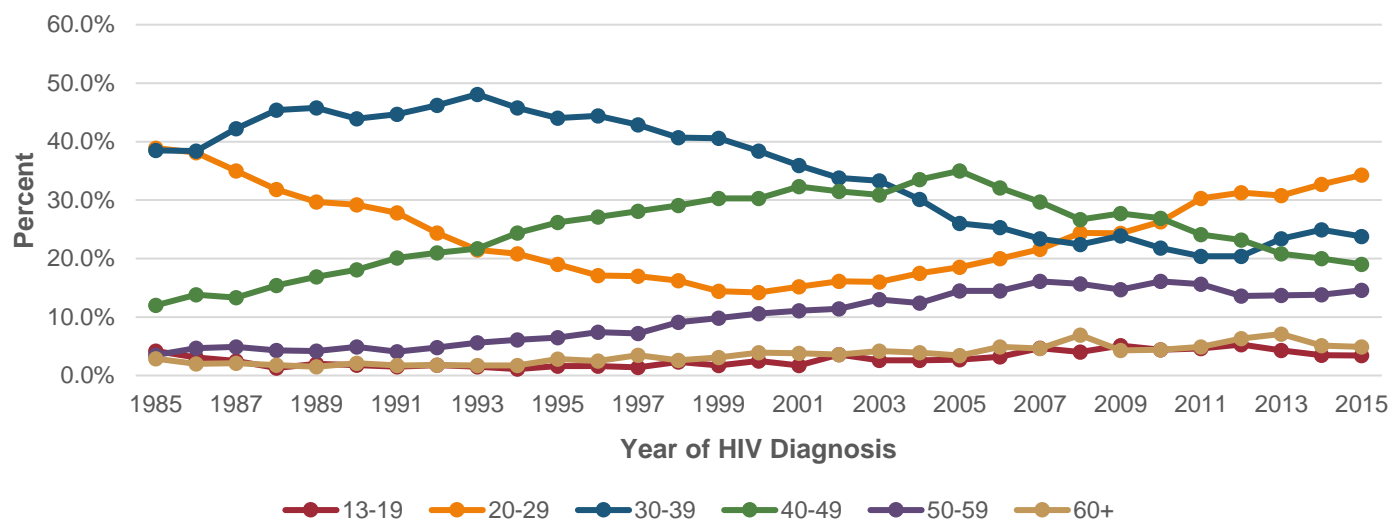
Rate of Adult/Adolescent Reported HIV Cases by Race/Ethnicity, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2006 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	TOTAL NO. OF HIV DIAGNOSES	RACE/ETHNICITY				
			Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
2006	2,214	Population	259,717	1,309,033	2,785,642	285,733
		Cases	122	1,707	286	102
		Rate	46.9	130.4	10.3	35.6
2007	2,274	Population	273,408	1,323,746	2,775,780	293,495
		Cases	125	1,742	293	114
		Rate	45.7	131.6	10.6	38.7
2008	2,159	Population	285,931	1,336,116	2,769,180	301,040
		Cases	138	1,630	289	101
		Rate	48.3	122.0	10.4	33.7
2009	1,777	Population	298,277	1,353,474	2,767,918	309,931
		Cases	100	1,363	227	85
		Rate	33.4	100.7	8.2	27.5
2010	1,821	Population	357,468	1,371,064	2,723,736	363,947
		Cases	113	1,357	242	109
		Rate	31.6	98.9	8.9	30.0
2011	1,500	Population	371,383	1,393,686	2,737,345	366,556
		Cases	117	1,094	215	74
		Rate	31.5	78.5	7.8	20.1
2012	1,390	Population	387,644	1,410,623	2,743,271	382,397
		Cases	83	1,038	177	90
		Rate	21.5	73.6	6.4	23.6
2013	1,317	Population	400,635	1,429,549	2,738,027	395,374
		Cases	80	982	186	68
		Rate	20.1	68.7	6.8	17.3
2014	1,322	Population	417,605	1,448,739	2,727,042	412,218
		Cases	110	980	164	67
		Rate	26.3	67.6	6.0	16.4
2015	1,334	Population	427,308	1,469,412	2,714,422	426,865
		Cases	95	1,010	177	51
		Rate	22.2	68.7	6.5	11.9

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2015, Reported through 6/30/2016

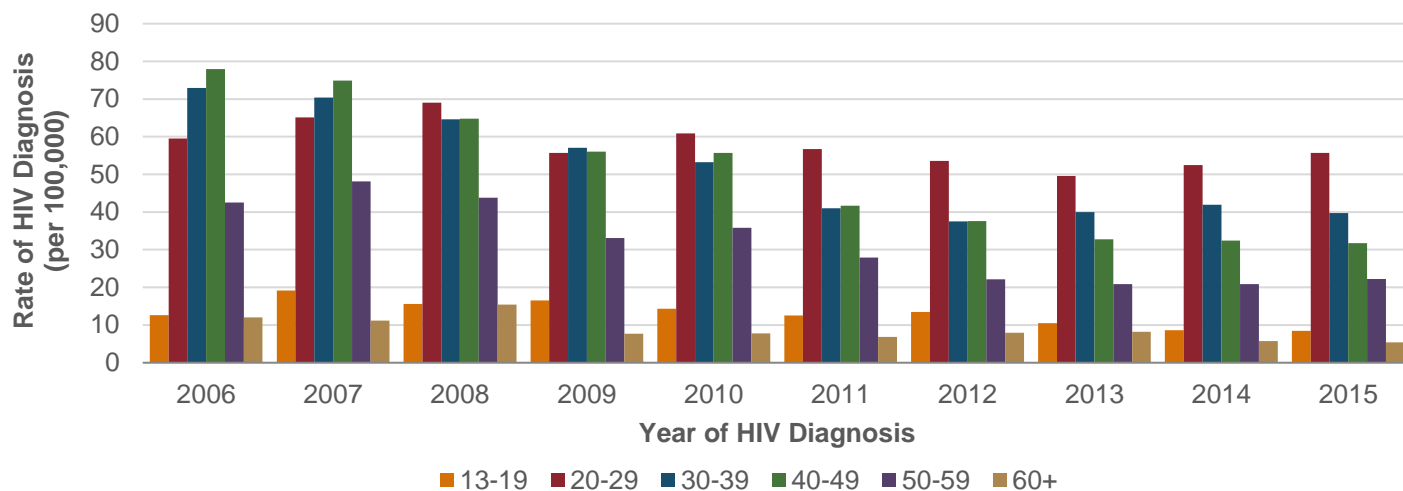
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	REPORTED ADULT/ADOLESCENT HIV DIAGNOSES						
	No.	% Age 13-19	% Age 20-29	% Age 30-39	% Age 40-49	% Age 50-59	% Age 60+
<1985	353	6.8%	40.8%	31.2%	15.0%	5.1%	1.1%
1985	691	4.2%	38.9%	38.5%	12.0%	3.5%	2.9%
1986	917	3.1%	38.1%	38.4%	13.8%	4.7%	2.0%
1987	1,240	2.5%	35.0%	42.2%	13.3%	4.9%	2.1%
1988	1,667	1.3%	31.8%	45.4%	15.4%	4.3%	1.8%
1989	2,143	2.0%	29.7%	45.8%	16.9%	4.2%	1.5%
1990	2,210	1.8%	29.2%	43.9%	18.1%	4.9%	2.1%
1991	2,566	1.5%	27.8%	44.7%	20.1%	4.1%	1.7%
1992	2,433	1.8%	24.4%	46.2%	21.0%	4.8%	1.8%
1993	2,177	1.5%	21.5%	48.1%	21.7%	5.6%	1.7%
1994	2,007	1.1%	20.8%	45.8%	24.4%	6.1%	1.7%
1995	2,018	1.6%	19.0%	44.0%	26.2%	6.5%	2.8%
1996	1,857	1.6%	17.1%	44.4%	27.1%	7.4%	2.5%
1997	1,892	1.4%	17.0%	42.9%	28.1%	7.2%	3.5%
1998	1,863	2.3%	16.2%	40.7%	29.1%	9.1%	2.6%
1999	1,806	1.7%	14.4%	40.6%	30.3%	9.8%	3.1%
2000	1,714	2.5%	14.2%	38.4%	30.3%	10.6%	3.9%
2001	1,857	1.7%	15.2%	35.9%	32.3%	11.1%	3.8%
2002	2,112	3.6%	16.1%	33.8%	31.5%	11.4%	3.6%
2003	1,966	2.6%	16.0%	33.3%	30.9%	13.0%	4.2%
2004	2,037	2.6%	17.5%	30.1%	33.5%	12.4%	3.9%
2005	2,108	2.7%	18.5%	26.0%	35.0%	14.5%	3.4%
2006	2,214	3.2%	20.0%	25.3%	32.1%	14.5%	4.9%
2007	2,274	4.7%	21.6%	23.4%	29.7%	16.1%	4.6%
2008	2,159	4.0%	24.4%	22.4%	26.7%	15.7%	6.9%
2009	1,777	5.1%	24.3%	23.9%	27.7%	14.7%	4.3%
2010	1,821	4.4%	26.3%	21.8%	26.9%	16.1%	4.4%
2011	1,500	4.6%	30.3%	20.4%	24.1%	15.6%	4.9%
2012	1,390	5.3%	31.3%	20.4%	23.2%	13.6%	6.3%
2013	1,317	4.3%	30.8%	23.4%	20.8%	13.7%	7.1%
2014	1,322	3.5%	32.7%	24.9%	20.0%	13.8%	5.1%
2015	1,334	3.4%	34.3%	23.8%	19.0%	14.6%	4.9%
TOTAL	56,742	2.7%	23.4%	35.3%	25.2%	9.9%	3.5%

Figure 5A – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 2006-2015, Reported through 6/30/2016

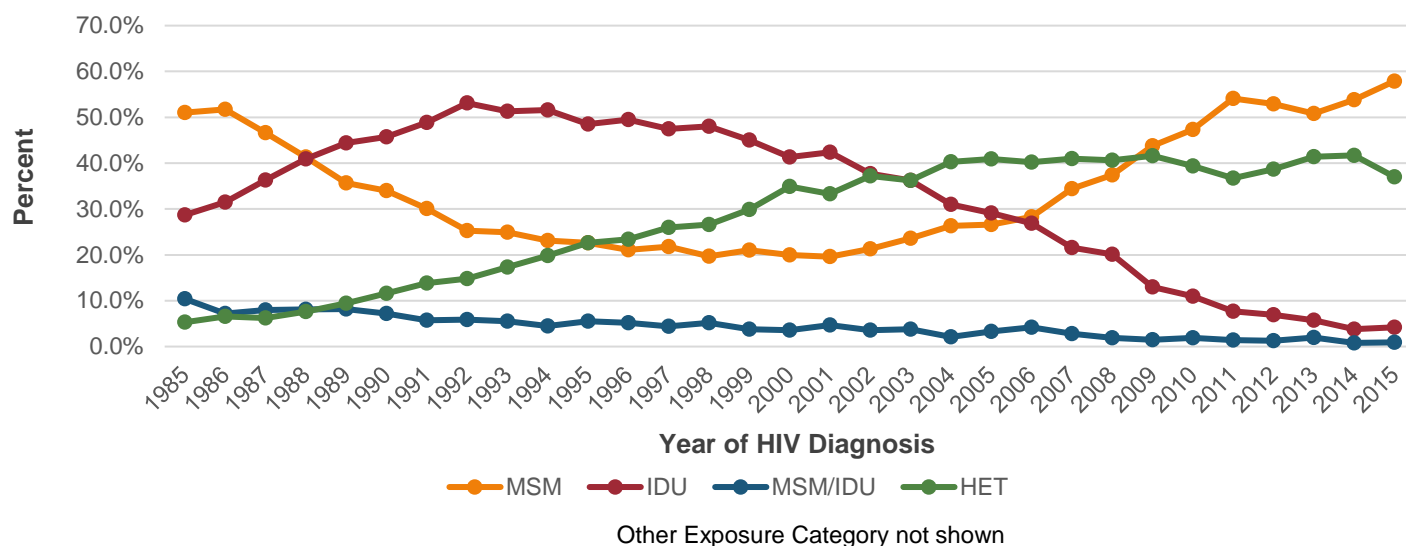
Rate of HIV Diagnosis of Adult/Adolescent Reported HIV Cases by Age, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 2006 through 2016, as Reported through 6/30/2016



YEAR OF HIV DIAGNOSIS	TOTAL NO. OF HIV DIAGNOSES	AGE AT HIV DIAGNOSIS						
			Age 13-19	Age 20-29	Age 30-39	Age 40-49	Age 50-59	Age 60+
2006	2,214	Population	559,737	743,598	768,314	912,205	754,441	901,830
		Cases	71	443	560	711	321	108
		Rate	12.7	59.5	72.9	77.9	42.6	12.0
2007	2,274	Population	558,452	754,712	756,083	902,196	760,351	934,634
		Cases	107	491	532	675	366	105
		Rate	19.1	65.1	70.4	74.9	48.2	11.2
2008	2,159	Population	553,855	763,450	748,586	889,690	773,153	963,533
		Cases	86	527	484	576	339	149
		Rate	15.6	69.0	64.6	64.8	43.8	15.5
2009	1,777	Population	547,568	775,650	744,736	877,993	789,380	994,273
		Cases	91	432	425	492	261	76
		Rate	16.6	55.7	57.0	56.1	33.1	7.7
2010	1,821	Population	559,289	787,246	745,903	879,748	818,608	1,025,421
		Cases	80	479	397	490	293	80
		Rate	14.3	60.8	53.2	55.7	35.8	7.8
2011	1,500	Population	549,363	800,985	746,128	868,133	838,152	1,066,209
		Cases	69	455	306	362	234	74
		Rate	12.6	56.7	41.0	41.6	27.9	6.9
2012	1,390	Population	547,321	811,949	756,067	856,920	853,272	1,098,406
		Cases	74	435	284	322	189	88
		Rate	13.5	53.6	37.5	37.6	22.2	8.0
2013	1,317	Population	539,781	817,635	770,888	836,318	863,937	1,135,027
		Cases	57	406	308	274	180	94
		Rate	10.5	49.6	40.0	32.8	20.9	8.2
2014	1,322	Population	537,622	824,064	784,896	816,003	874,069	1,168,949
		Cases	46	432	329	264	182	67
		Rate	8.6	52.5	41.9	32.4	20.9	5.8
2015	1,334	Population	535,085	821,815	798,728	799,172	877,441	1,205,766
		Cases	45	458	317	253	195	65
		Rate	8.5	55.7	39.7	31.7	22.2	5.4

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2015, Reported through 6/30/2016

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



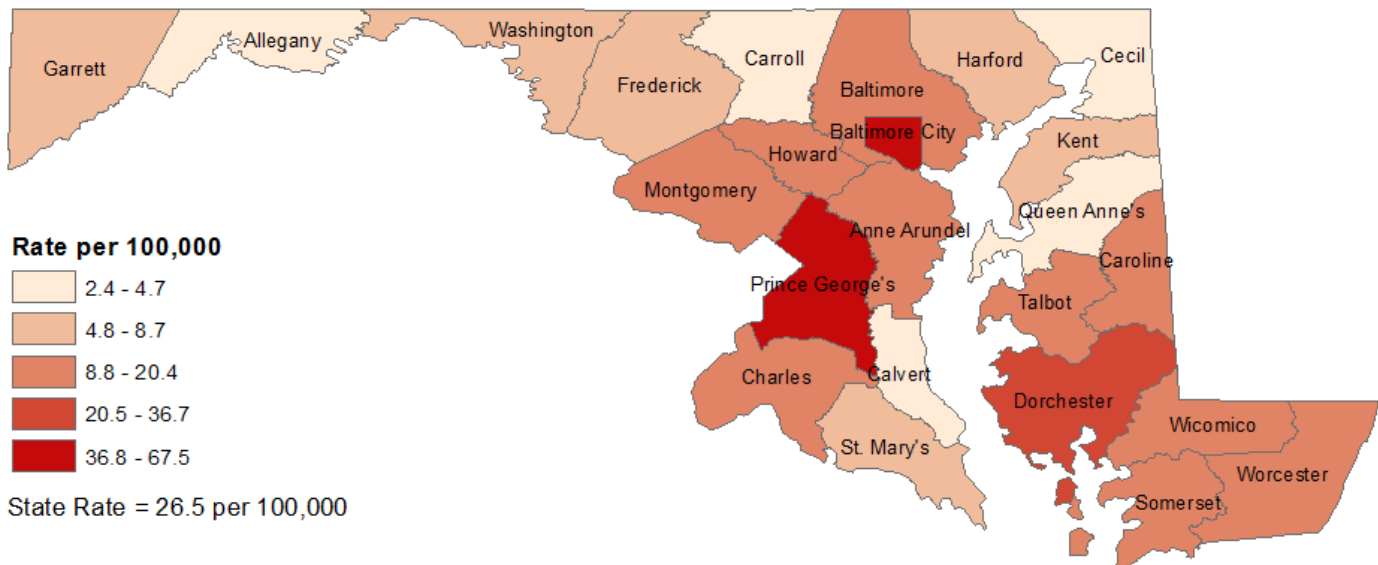
YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	With Exposure Category					% Other Exposure
		No.	% MSM	% IDU	% MSM/IDU	% HET	
<1985	353	332	60.5%	24.4%	6.9%	4.2%	3.9%
1985	691	655	51.0%	28.7%	10.4%	5.3%	4.6%
1986	917	888	51.7%	31.5%	7.2%	6.6%	2.9%
1987	1,240	1,193	46.6%	36.3%	8.0%	6.2%	2.9%
1988	1,667	1,598	41.3%	40.9%	8.1%	7.6%	2.1%
1989	2,143	2,061	35.7%	44.4%	8.2%	9.4%	2.2%
1990	2,210	2,110	34.0%	45.7%	7.2%	11.6%	1.5%
1991	2,566	2,423	30.1%	48.9%	5.7%	13.8%	1.5%
1992	2,433	2,271	25.3%	53.1%	5.9%	14.8%	0.8%
1993	2,177	2,069	24.9%	51.3%	5.5%	17.3%	1.0%
1994	2,007	1,890	23.1%	51.6%	4.5%	19.8%	1.0%
1995	2,018	1,877	22.6%	48.5%	5.5%	22.6%	0.8%
1996	1,857	1,716	21.1%	49.5%	5.2%	23.4%	0.8%
1997	1,892	1,718	21.8%	47.5%	4.4%	26.0%	0.4%
1998	1,863	1,683	19.7%	48.0%	5.2%	26.6%	0.5%
1999	1,806	1,617	21.0%	45.0%	3.8%	29.9%	0.4%
2000	1,714	1,519	20.0%	41.3%	3.6%	34.9%	0.2%
2001	1,857	1,636	19.6%	42.4%	4.7%	33.3%	0.1%
2002	2,112	1,843	21.3%	37.7%	3.6%	37.2%	0.2%
2003	1,966	1,739	23.6%	36.2%	3.8%	36.2%	0.3%
2004	2,037	1,750	26.3%	31.0%	2.1%	40.3%	0.3%
2005	2,108	1,713	26.6%	29.1%	3.3%	40.9%	0.1%
2006	2,214	1,682	28.3%	26.9%	4.2%	40.2%	0.4%
2007	2,274	1,630	34.4%	21.6%	2.8%	41.0%	0.2%
2008	2,159	1,405	37.4%	20.1%	1.9%	40.6%	0.1%
2009	1,777	1,095	43.8%	13.0%	1.5%	41.6%	0.1%
2010	1,821	1,097	47.3%	11.0%	1.9%	39.4%	0.4%
2011	1,500	907	54.1%	7.7%	1.4%	36.7%	0.0%
2012	1,390	1,016	52.9%	6.9%	1.3%	38.7%	0.3%
2013	1,317	1,040	50.8%	5.7%	2.0%	41.4%	0.1%
2014	1,322	1,012	53.8%	3.8%	0.8%	41.7%	0.0%
2015	1,334	803*	57.9%	4.2%	0.9%	37.0%	0.0%
TOTAL	56,742	47,988	31.7%	36.2%	4.6%	26.7%	0.8%

*2015 reported HIV exposure data are preliminary.

Section III – Adult/Adolescent Cases by Jurisdiction

This section discusses trends of adult/adolescent HIV cases by jurisdiction reported to the Maryland Department of Health and Mental Hygiene as of June 30, 2016. This section also displays CD4 results, the percent linked to care, the percent late diagnosis, viral load test results, and the percent of viral load suppressed providing insight into where current prevention and early treatment strategies should be focused.

Maryland Adult/Adolescent HIV Diagnoses, Rate by Jurisdiction, 2015



A few important numbers:

- The rate of new HIV diagnoses among adults/adolescents in Maryland is **26.5 per 100,000**.

Jurisdictions with the highest rate of new HIV diagnoses among adults/adolescents in Maryland include:

- Baltimore City: **67.5 per 100,000**
- Prince George's County: **55.6 per 100,000**
- Dorchester County: **36.7 per 100,000**
- Montgomery County: **20.4 per 100,000**

- The rate of new AIDS diagnoses among adults/adolescents in Maryland is **12.7 per 100,000**.

Jurisdictions with the highest rate of new AIDS diagnoses among adults/adolescents in Maryland include:

- Baltimore City: **40.7 per 100,000**
- Dorchester County: **33.0 per 100,000**
- Prince George's County: **22.0 per 100,000**
- Kent County: **11.5 per 100,000**

Table 1 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late HIV Diagnosis	% Late HIV Diagnosis	First CD4 Test Result		
									No. with Test	% with Test	Median Count
Allegany	63,523	2	0.1%	3.1	***	***	***	***	***	***	***
Anne Arundel	472,498	62	4.6%	13.1	49	79.0%	16	25.8%	50	80.6%	345
Baltimore City	523,202	353	26.5%	67.5	295	83.6%	79	22.4%	279	79.0%	384
Baltimore	701,736	133	10.0%	19.0	113	85.0%	33	24.8%	109	82.0%	384
Calvert	76,074	3	0.2%	3.9	***	***	***	***	***	***	***
Caroline	27,119	3	0.2%	11.1	***	***	***	***	***	***	***
Carroll	142,863	6	0.4%	4.2	6	100.0%	***	***	***	***	***
Cecil	85,936	4	0.3%	4.7	***	***	***	***	***	***	***
Charles	129,678	26	1.9%	20.0	21	80.8%	***	***	***	***	***
Dorchester	27,278	10	0.7%	36.7	9	90.0%	6	60.0%	10	100.0%	167
Frederick	204,660	13	1.0%	6.4	12	92.3%	***	***	***	***	***
Garrett	25,567	2	0.1%	7.8	***	***	***	***	***	***	***
Harford	210,992	12	0.9%	5.7	10	83.3%	5	41.7%	8	66.7%	110
Howard	260,100	31	2.3%	11.9	29	93.5%	7	22.6%	25	80.6%	389
Kent	17,436	1	0.1%	5.7	***	***	***	***	***	***	***
Montgomery	864,331	176	13.2%	20.4	144	81.8%	44	25.0%	143	81.3%	360
Prince George's	758,979	422	31.6%	55.6	354	83.9%	95	22.5%	353	83.6%	372
Queen Anne's	41,518	1	0.1%	2.4	***	***	***	***	***	***	***
Saint Mary's	91,688	7	0.5%	7.6	***	***	***	***	***	***	***
Somerset	22,563	3	0.2%	13.3	***	***	***	***	***	***	***
Talbot	32,559	4	0.3%	12.3	***	***	***	***	***	***	***
Washington	126,168	11	0.8%	8.7	10	90.9%	***	***	***	***	***
Wicomico	86,317	15	1.1%	17.4	11	73.3%	***	***	***	***	***
Worcester	45,221	5	0.4%	11.1	5	100.0%	***	***	***	***	***
Corrections	--	29	2.2%	--	23	79.3%	***	***	***	***	***
TOTAL	5,038,007	1,334	100.0%	26.5	1,115	83.6%	315	23.6%	1,086	81.4%	373

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	63,523	0	0.0%	0.0	--	0.0%
Anne Arundel	472,498	30	4.7%	6.3	3.8	56.7%
Baltimore City	523,202	213	33.3%	40.7	5.1	39.9%
Baltimore	701,736	73	11.4%	10.4	4.9	47.9%
Calvert	76,074	3	0.5%	3.9	***	***
Caroline	27,119	3	0.5%	11.1	***	***
Carroll	142,863	5	0.8%	3.5	1.2	80.0%
Cecil	85,936	2	0.3%	2.3	***	***
Charles	129,678	9	1.4%	6.9	6.8	33.3%
Dorchester	27,278	9	1.4%	33.0	5.7	55.6%
Frederick	204,660	3	0.5%	1.5	***	***
Garrett	25,567	0	0.0%	0.0	--	0.0%
Harford	210,992	10	1.6%	4.7	2.9	80.0%
Howard	260,100	14	2.2%	5.4	6.0	42.9%
Kent	17,436	2	0.3%	11.5	***	***
Montgomery	864,331	72	11.3%	8.3	3.1	65.3%
Prince George's	758,979	167	26.1%	22.0	3.3	58.1%
Queen Anne's	41,518	0	0.0%	0.0	--	0.0%
Saint Mary's	91,688	5	0.8%	5.5	1.3	80.0%
Somerset	22,563	2	0.3%	8.9	***	***
Talbot	32,559	0	0.0%	0.0	--	0.0%
Washington	126,168	2	0.3%	1.6	***	***
Wicomico	86,317	7	1.1%	8.1	4.4	57.1%
Worcester	45,221	2	0.3%	4.4	***	***
Corrections	--	7	1.1%	--	9.1	28.6%
TOTAL	5,038,007	640	100.0%	12.7	4.3	51.6%

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	63,523	41	0.3%	64.5	30	0.2%	47.2	71	0.2%	111.8	894
Anne Arundel	472,498	546	3.7%	115.6	634	3.7%	134.2	1,180	3.7%	249.7	400
Baltimore City	523,202	5,626	37.9%	1,075.3	6,847	40.2%	1,308.7	12,473	39.1%	2,384.0	41
Baltimore	701,736	1,304	8.8%	185.8	1,512	8.9%	215.5	2,816	8.8%	401.3	249
Calvert	76,074	50	0.3%	65.7	53	0.3%	69.7	103	0.3%	135.4	738
Caroline	27,119	29	0.2%	106.9	36	0.2%	132.7	65	0.2%	239.7	417
Carroll	142,863	59	0.4%	41.3	71	0.4%	49.7	130	0.4%	91.0	1,098
Cecil	85,936	52	0.3%	60.5	59	0.3%	68.7	111	0.3%	129.2	774
Charles	129,678	229	1.5%	176.6	183	1.1%	141.1	412	1.3%	317.7	314
Dorchester	27,278	40	0.3%	146.6	84	0.5%	307.9	124	0.4%	454.6	219
Frederick	204,660	168	1.1%	82.1	152	0.9%	74.3	320	1.0%	156.4	639
Garrett	25,567	6	0.0%	23.5	4	0.0%	15.6	10	0.0%	39.1	2,556
Harford	210,992	191	1.3%	90.5	237	1.4%	112.3	428	1.3%	202.9	492
Howard	260,100	283	1.9%	108.8	270	1.6%	103.8	553	1.7%	212.6	470
Kent	17,436	15	0.1%	86.0	19	0.1%	109.0	34	0.1%	195.0	512
Montgomery	864,331	1,777	12.0%	205.6	1,959	11.5%	226.6	3,736	11.7%	432.2	231
Prince George's	758,979	3,481	23.4%	458.6	3,579	21.0%	471.6	7,060	22.1%	930.2	107
Queen Anne's	41,518	16	0.1%	38.5	33	0.2%	79.5	49	0.2%	118.0	847
Saint Mary's	91,688	67	0.5%	73.1	67	0.4%	73.1	134	0.4%	146.1	684
Somerset	22,563	22	0.1%	97.5	30	0.2%	133.0	52	0.2%	230.5	433
Talbot	32,559	27	0.2%	82.9	32	0.2%	98.3	59	0.2%	181.2	551
Washington	126,168	174	1.2%	137.9	127	0.7%	100.7	301	0.9%	238.6	419
Wicomico	86,317	102	0.7%	118.2	110	0.6%	127.4	212	0.7%	245.6	407
Worcester	45,221	33	0.2%	73.0	48	0.3%	106.1	81	0.3%	179.1	558
Corrections	--	521	3.5%	--	847	5.0%	--	1,368	4.3%	--	--
TOTAL	5,038,007	14,859	100.0%	294.9	17,023	100.0%	337.9	31,882	100.0%	632.8	158

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction and Current Residence, Reported through 6/30/2016

JURISDICTION OF RESIDENCE	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITH OR WITHOUT AIDS DIAGNOSIS								
		Residence at HIV Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio	No.	% of Total	Rate	Ratio	
Allegany	63,523	71	0.2%	111.8	894	101	0.3%	159.0	628	42.3%
Anne Arundel	472,498	1,180	3.7%	249.7	400	1,175	4.0%	248.7	402	-0.4%
Baltimore City	523,202	12,473	39.1%	2,384.0	41	10,558	35.8%	2,018.0	49	-15.4%
Baltimore	701,736	2,816	8.8%	401.3	249	3,177	10.8%	452.7	220	12.8%
Calvert	76,074	103	0.3%	135.4	738	120	0.4%	157.7	633	16.5%
Caroline	27,119	65	0.2%	239.7	417	57	0.2%	210.2	475	-12.3%
Carroll	142,863	130	0.4%	91.0	1,098	123	0.4%	86.1	1,161	-5.4%
Cecil	85,936	111	0.3%	129.2	774	118	0.4%	137.3	728	6.3%
Charles	129,678	412	1.3%	317.7	314	453	1.5%	349.3	286	10.0%
Dorchester	27,278	124	0.4%	454.6	219	128	0.4%	469.2	213	3.2%
Frederick	204,660	320	1.0%	156.4	639	354	1.2%	173.0	578	10.6%
Garrett	25,567	10	0.0%	39.1	2,556	13	0.0%	50.8	1,966	30.0%
Harford	210,992	428	1.3%	202.9	492	431	1.5%	204.3	489	0.7%
Howard	260,100	553	1.7%	212.6	470	567	1.9%	218.0	458	2.5%
Kent	17,436	34	0.1%	195.0	512	38	0.1%	217.9	458	11.8%
Montgomery	864,331	3,736	11.7%	432.2	231	3,082	10.4%	356.6	280	-17.5%
Prince George's	758,979	7,060	22.1%	930.2	107	7,226	24.5%	952.1	105	2.4%
Queen Anne's	41,518	49	0.2%	118.0	847	48	0.2%	115.6	864	-2.0%
Saint Mary's	91,688	134	0.4%	146.1	684	158	0.5%	172.3	580	17.9%
Somerset	22,563	52	0.2%	230.5	433	61	0.2%	270.3	369	17.3%
Talbot	32,559	59	0.2%	181.2	551	67	0.2%	205.8	485	13.6%
Washington	126,168	301	0.9%	238.6	419	330	1.1%	261.6	382	9.6%
Wicomico	86,317	212	0.7%	245.6	407	225	0.8%	260.7	383	6.1%
Worcester	45,221	81	0.3%	179.1	558	86	0.3%	190.2	525	6.2%
Corrections	--	1,368	4.3%	--	--	827	2.8%	--	--	-39.5%
TOTAL	5,038,007	31,882	100.0%	632.8	158	29,523	100.0%	586.0	170	-7.4%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The extent to which a county gained or lost HIV/AIDS cases relative to the number of cases diagnosed in the county.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	71	48	67.6%	652	4.2%	8.3%	18.8%	68.8%
Anne Arundel	1,180	683	57.9%	550	12.0%	13.8%	18.3%	55.9%
Baltimore City	12,473	7,100	56.9%	527	14.1%	15.4%	17.5%	53.0%
Baltimore	2,816	1,611	57.2%	564	12.0%	13.3%	16.6%	58.0%
Calvert	103	72	69.9%	648	8.3%	12.5%	12.5%	66.7%
Caroline	65	28	43.1%	475	17.9%	10.7%	28.6%	42.9%
Carroll	130	62	47.7%	600	17.7%	9.7%	9.7%	62.9%
Cecil	111	49	44.1%	546	6.1%	20.4%	18.4%	55.1%
Charles	412	248	60.2%	610	10.1%	11.3%	16.5%	62.1%
Dorchester	124	83	66.9%	509	10.8%	18.1%	19.3%	51.8%
Frederick	320	179	55.9%	565	8.9%	11.2%	20.1%	59.8%
Garrett	10	6	60.0%	679	16.7%	0.0%	0.0%	83.3%
Harford	428	256	59.8%	553	14.1%	15.6%	16.0%	54.3%
Howard	553	304	55.0%	564	12.8%	15.8%	14.8%	56.6%
Kent	34	20	58.8%	631	10.0%	30.0%	5.0%	55.0%
Montgomery	3,736	1,925	51.5%	547	9.5%	14.1%	20.1%	56.3%
Prince George's	7,060	3,945	55.9%	537	11.7%	14.4%	19.1%	54.9%
Queen Anne's	49	29	59.2%	605	13.8%	17.2%	3.4%	65.5%
Saint Mary's	134	88	65.7%	488	11.4%	14.8%	26.1%	47.7%
Somerset	52	38	73.1%	554	10.5%	10.5%	15.8%	63.2%
Talbot	59	30	50.8%	394	23.3%	23.3%	10.0%	43.3%
Washington	301	160	53.2%	725	6.3%	7.5%	14.4%	71.9%
Wicomico	212	126	59.4%	520	18.3%	11.9%	17.5%	52.4%
Worcester	81	53	65.4%	563	11.3%	11.3%	17.0%	60.4%
Corrections	1,368	769	56.2%	478	18.5%	16.5%	17.8%	47.2%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	71	48	67.6%	91.7%	22,422
Anne Arundel	1,180	642	54.4%	76.5%	12,048
Baltimore City	12,473	6,503	52.1%	70.8%	10,990
Baltimore	2,816	1,482	52.6%	78.1%	12,589
Calvert	103	74	71.8%	86.5%	17,757
Caroline	65	28	43.1%	78.6%	5,159
Carroll	130	64	49.2%	84.4%	45,252
Cecil	111	44	39.6%	81.8%	1,170
Charles	412	252	61.2%	75.8%	14,740
Dorchester	124	81	65.3%	84.0%	4,850
Frederick	320	186	58.1%	83.9%	4,019
Garrett	10	6	60.0%	83.3%	565
Harford	428	238	55.6%	78.2%	15,814
Howard	553	308	55.7%	77.6%	30,990
Kent	34	21	61.8%	85.7%	1,506
Montgomery	3,736	1,913	51.2%	85.3%	11,740
Prince George's	7,060	3,936	55.8%	79.4%	15,849
Queen Anne's	49	27	55.1%	85.2%	71,428
Saint Mary's	134	85	63.4%	78.8%	23,119
Somerset	52	35	67.3%	85.7%	10,410
Talbot	59	35	59.3%	77.1%	45,988
Washington	301	160	53.2%	83.8%	707
Wicomico	212	121	57.1%	72.7%	34,050
Worcester	81	54	66.7%	81.5%	11,005
Corrections	1,368	597	43.6%	61.8%	17,290
TOTAL	31,882	16,940	53.1%	76.0%	12,640

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

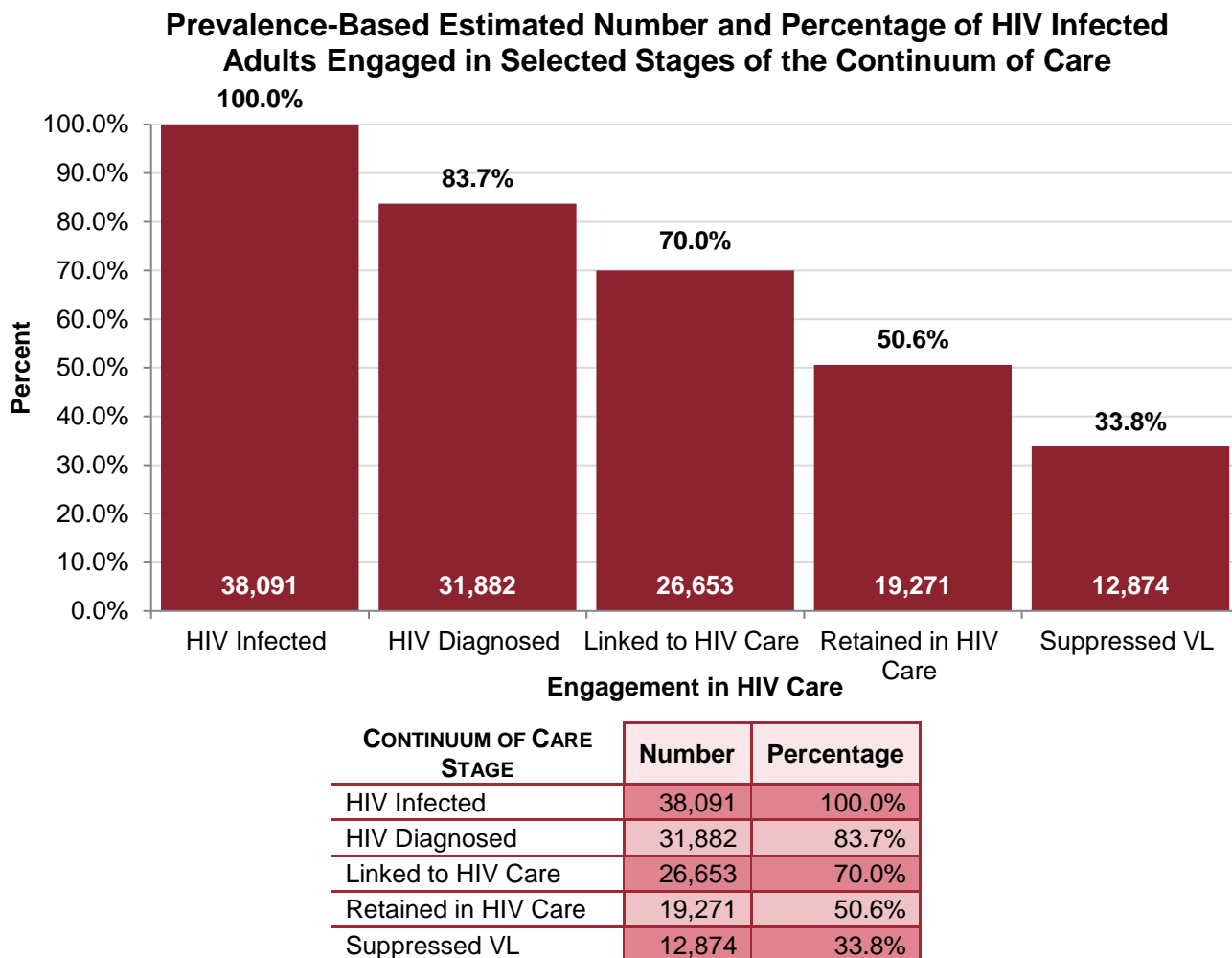
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The prevalence-based Maryland Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)² to generate an estimated number of HIV infected persons in Maryland. It then uses local data to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.



HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

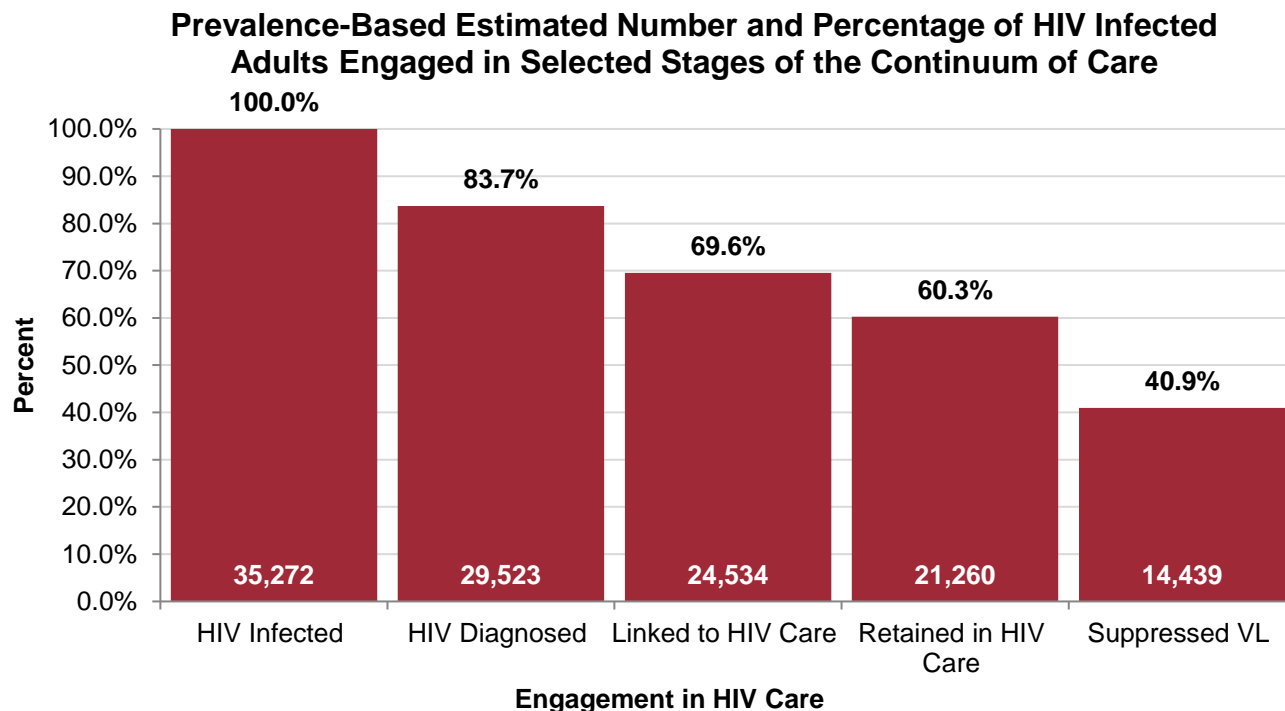
Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year, reported through 6/30/2016 of less than 200 copies per milliliter.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test and Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis.* 2011; 52 (6): 7930-800.

² Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The prevalence-based Maryland Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)¹ to generate an estimated number of HIV infected persons in Maryland. It then uses local data for current Maryland residents to describe the number and percentage of persons living with HIV in Maryland who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Infected	35,272	100.0%
HIV Diagnosed	29,523	83.7%
Linked to HIV Care	24,534	69.6%
Retained in HIV Care	21,260	60.3%
Suppressed VL	14,439	40.9%

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

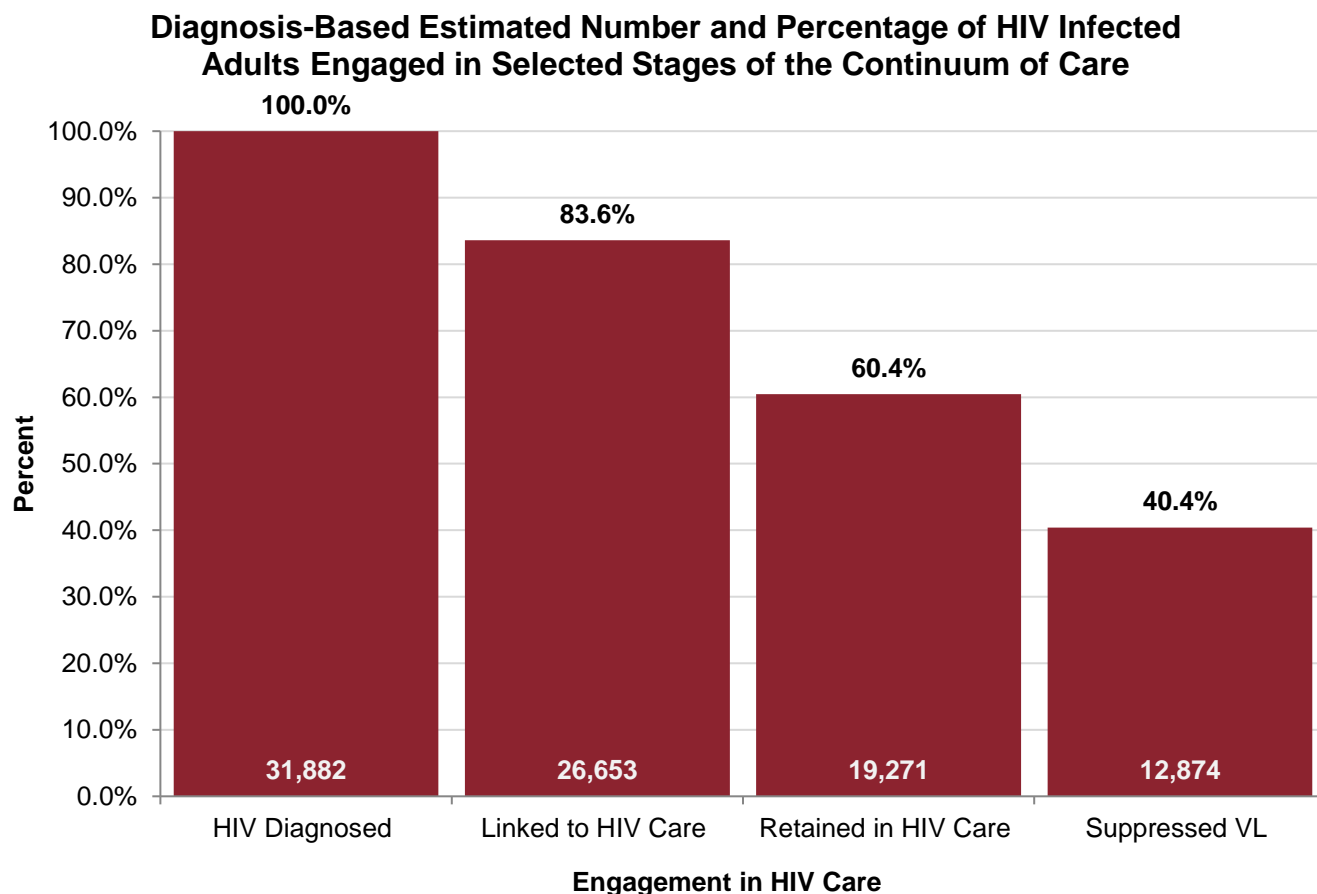
Suppressed Viral Load: HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31st of the specified year of less than 200 copies per milliliter.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

¹ Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses local data to describe the number and percentage of persons diagnosed with HIV in Maryland who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	31,882	100.0%
Linked to HIV Care	26,653	83.6%
Retained in HIV Care	19,271	60.4%
Suppressed VL	12,874	40.4%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

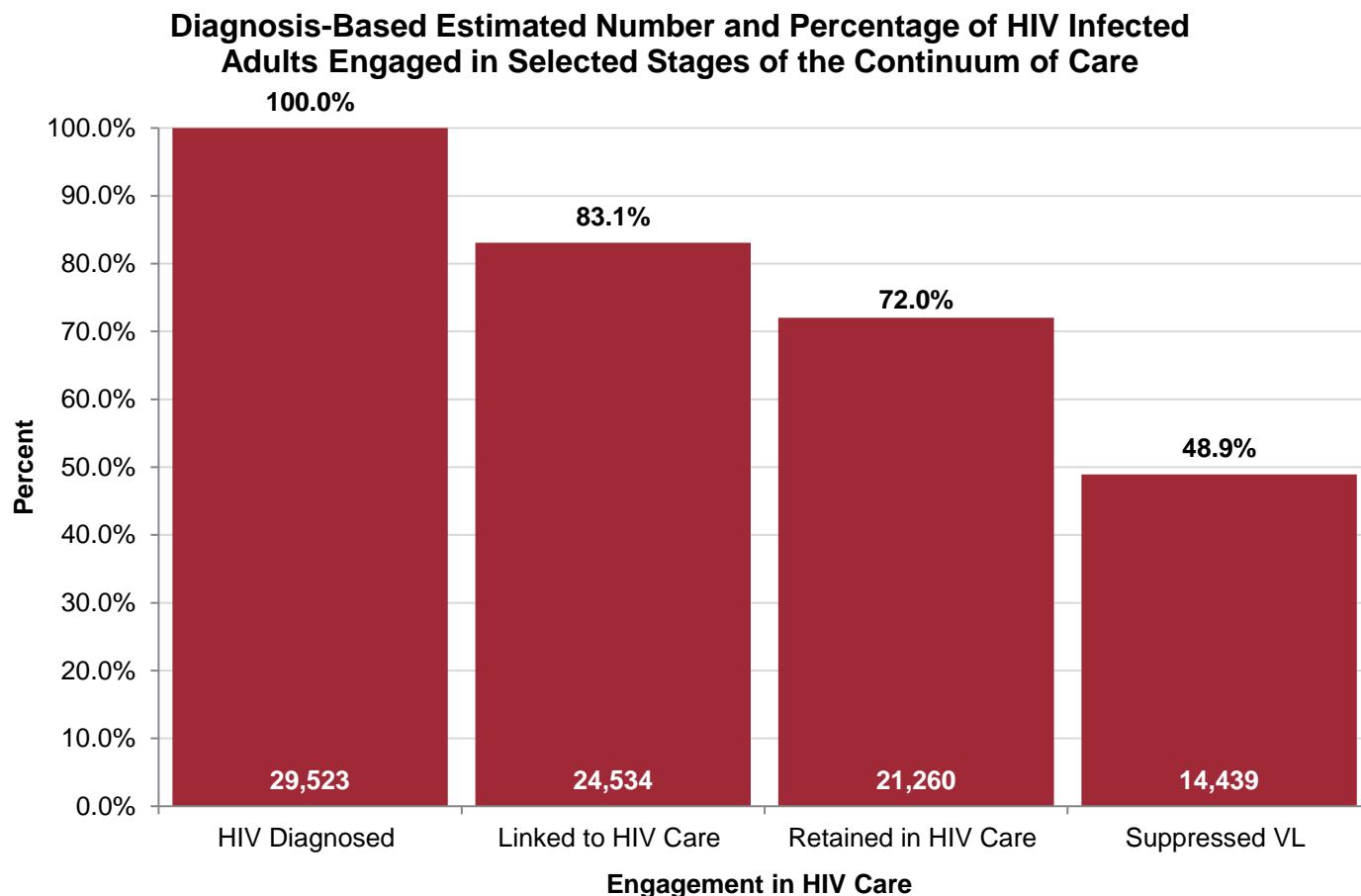
Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses local data for current Maryland residents to describe the number and percentage of persons diagnosed with HIV in Maryland who belong to each of the stages of engagement in HIV care.



CONTINUUM OF CARE STAGE	Number	Percentage
HIV Diagnosed	29,523	100.0%
Linked to HIV Care	24,534	83.1%
Retained in HIV Care	21,260	72.0%
Suppressed VL	14,439	48.9%

HIV Diagnosed: Adult/adolescent total living HIV as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Linked to HIV Care: HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

Suppressed Viral Load: HIV Diagnosed with the most recent viral measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

Section IV – Cases by Age

Table 6 – HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 6/30/2016

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES								First CD4 Test Result	
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. Late Diagnosis	% Late Diagnosis	No. with Test	% with Test	Median Count
<5 (Pediatric)	369,035	0	0.0%	0.0	0	0.0%	0	0.0%	0	0.0%	--
5-12 (Pediatric)	599,359	0	0.0%	0.0	0	0.0%	0	0.0%	0	0.0%	--
13-19	535,085	45	3.4%	8.4	43	95.6%	***	***	40	88.9%	383
20-29	821,815	458	34.3%	55.7	379	82.8%	73	15.9%	376	82.1%	422
30-39	798,728	317	23.8%	39.7	262	82.6%	75	23.7%	258	81.4%	414
40-49	799,172	253	19.0%	31.7	211	83.4%	77	30.4%	201	79.4%	325
50-59	877,441	195	14.6%	22.2	162	83.1%	66	33.8%	156	80.0%	274
60+	1,205,766	66	4.9%	5.5	58	87.9%	***	***	55	83.3%	307
TOTAL	6,006,401	1,334	100.0%	22.2	1,115	83.6%	315	23.6%	1,086	81.4%	373

*** Data withheld due to low population counts and/or case counts

Table 7 – AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 6/30/2016

AGE AT AIDS DIAGNOSIS	POPULATION	REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
<5 (Pediatric)	369,035	0	0.0%	0.0	--	--
5-12 (Pediatric)	599,359	0	0.0%	0.0	--	--
13-19	535,085	5	0.8%	0.9	2.8	60.0%
20-29	821,815	128	19.8%	15.6	2.5	61.7%
30-39	798,728	158	24.5%	19.8	3.9	50.0%
40-49	799,172	159	24.6%	19.9	5.0	48.4%
50-59	877,441	141	21.8%	16.1	4.9	50.4%
60+	1,205,766	55	8.5%	4.6	6.9	38.2%
TOTAL	6,006,401	646	100.0%	10.8	4.4	51.1%

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Table 8 – HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	POPULATION	LIVING HIV CASES WITHOUT AIDS			LIVING HIV CASES WITH AIDS			TOTAL LIVING HIV CASES			
		No.	%	Rate	No.	%	Rate	No.	%	Rate	Ratio (1 in X)
<5	369,035	6	0.0%	1.6	1	0.0%	0.3	7	0.0%	1.9	52,719
5-12	599,359	47	0.3%	7.8	6	0.0%	1.0	53	0.2%	8.8	11,308
13-19	535,085	163	1.1%	30.5	47	0.3%	8.8	210	0.6%	39.2	2,548
20-29	821,815	2,377	15.7%	289.2	927	5.4%	112.8	3,304	10.2%	402.0	248
30-39	798,728	3,212	21.3%	402.1	2,216	12.8%	277.4	5,428	16.8%	679.6	147
40-49	799,172	3,505	23.2%	438.6	4,569	26.5%	571.7	8,074	24.9%	1,010.3	98
50-59	877,441	3,948	26.1%	449.9	6,289	36.4%	716.7	10,237	31.6%	1,166.7	85
60+	1,205,766	1,857	12.3%	154.0	3,205	18.6%	265.8	5,062	15.6%	419.8	238
TOTAL	6,006,401	15,115	100.0%	251.6	17,260	100.0%	287.4	32,375	100.0%	539.0	185

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	83	56	67.5%	535	3.6%	21.4%	25.0%	50.0%
20-29	3,025	1,834	60.6%	543	9.8%	13.9%	21.0%	55.3%
30-39	5,402	2,906	53.8%	534	13.6%	13.6%	18.5%	54.3%
40-49	8,073	4,441	55.0%	526	14.0%	14.9%	17.9%	53.3%
50-59	10,237	5,878	57.4%	545	13.2%	14.9%	16.7%	55.2%
60+	5,062	2,797	55.3%	549	11.0%	15.1%	18.2%	55.7%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016

AGE ON 12/31/2015	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
13-19	83	62	74.7%	46.8%	15,002
20-29	3,025	1,871	61.9%	61.0%	15,393
30-39	5,402	2,865	53.0%	70.8%	14,236
40-49	8,073	4,259	52.8%	76.1%	15,849
50-59	10,237	5,402	52.8%	79.7%	9,248
60+	5,062	2,481	49.0%	85.4%	5,921
TOTAL	31,882	16,940	53.1%	76.0%	12,640

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age on [date]: Age group of living cases on the specified date.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section V – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis		No. with Test	% with Test	Median Count
Male	2,417,134	966	72.4%	40.0	805	83.3%	229	23.7%		783	81.1%	371
Female	2,620,873	368	27.6%	14.0	310	84.2%	86	23.4%		303	82.3%	386
TOTAL	5,038,007	1,334	100.0%	26.5	1,115	83.6%	315	23.6%		1,086	81.4%	373

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis		No. with Test	% with Test	Median Count
Hispanic	427,308	95	7.1%	22.2	81	85.3%	33	34.7%		82	86.3%	322
Non-Hispanic	4,610,699	1,239	92.9%	26.9	1,034	83.5%	282	22.8%		1,004	81.0%	376
American Indian/Alaska Native, only	12,512	3	0.2%	24.0	***	***	***	***		***	***	***
Asian, only	324,863	19	1.4%	5.8	19	100.0%	***	***		***	***	***
Black, only	1,469,412	1,010	75.7%	68.7	829	82.1%	232	23.0%		800	79.2%	361
Native Hawaiian/Other Pacific Islander, only	2,590	0	0.0%	0.0	--	--	--	--		--	--	--
White only	2,714,422	178	13.3%	6.6	157	88.2%	36	20.2%		156	87.6%	466
Multiracial/Other	86,900	29	2.2%	33.4	***	***	8	27.6%		27	93.1%	471
TOTAL	5,038,007	1,334	100.0%	26.5	1,115	83.6%	315	23.6%		1,086	81.4%	373

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								First CD4 Test Result		
		No.	% of Total	Rate	No. Linked to Care	% Linked to Care	No. of Late Diagnosis	% Late Diagnosis		No. with Test	% with Test	Median Count
United States	4,117,970	1,070	80.2%	26.0	882	82.4%	247	23.1%		856	80.0%	377
Foreign-born	798,470	110	8.2%	13.8	99	90.0%	32	29.1%		103	93.6%	339
Africa	--	68	5.1%	--	60	88.2%	19	27.9%		61	89.7%	308
Asia	--	7	0.5%	--	7	100.0%	***	***		7	100.0%	425
Caribbean	--	9	0.7%	--	8	88.9%	***	***		9	100.0%	330
Central America	--	18	1.3%	--	16	88.9%	6	33.3%		18	100.0%	326
Other	--	8	0.6%	--	8	100.0%	***	***		8	100.0%	474
Unknown	--	154	11.5%	--	134	87.0%	36	23.4%		127	82.5%	357
TOTAL	4,916,440	1,334	100.0%	27.1	1,115	83.6%	315	23.6%		1,086	81.4%	373

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 12 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Male	2,417,134	437	68.3%	18.1	3.8	55.4%
Female	2,620,873	203	31.7%	7.7	5.3	43.3%
TOTAL	5,038,007	640	100.0%	12.7	4.3	51.6%

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Hispanic	427,308	47	7.3%	11.0	2.1	76.6%
Non-Hispanic	4,610,699	593	92.7%	12.9	4.4	49.6%
American Indian/Alaska Native, only	12,512	2	0.3%	16.0	0	100.0%
Asian, only	324,863	7	1.1%	2.2	2.5	71.4%
Black, only	1,469,412	502	78.4%	34.2	4.5	48.2%
Native Hawaiian/Other Pacific Islander, only	2,590	0	0.0%	0.0	--	--
White only	2,714,422	61	9.5%	2.2	3.8	60.7%
Multiracial/Other	86,900	21	3.3%	24.2	6.3	38.1%
TOTAL	5,038,007	640	100.0%	12.7	4.3	51.6%

COUNTY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
United States	4,117,970	542	84.7%	13.2	4.7	48.0%
Foreign-born	798,470	52	8.1%	6.5	2.4	61.5%
Africa	--	30	4.7%	--	1.9	66.7%
Asia	--	3	0.5%	--	***	***
Caribbean	--	5	0.8%	--	1.9	60.0%
Central America	--	10	1.6%	--	4	50.0%
Other	--	4	0.6%	--	***	***
Unknown	--	46	7.2%	--	1.5	82.6%
TOTAL	4,916,440	640	100.0%	13.0	4.3	51.6%

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Male	2,417,134	9,753	65.6%	403.5	11,079	65.1%	458.4	20,832	65.3%	861.8	116
Female	2,620,873	5,106	34.4%	194.8	5,944	34.9%	226.8	11,050	34.7%	421.6	237
TOTAL	5,038,007	14,859	100.0%	294.9	17,023	100.0%	337.9	31,882	100.0%	632.8	158

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
Hispanic	427,308	739	5.0%	172.9	985	5.8%	230.5	1,724	5.4%	403.5	247
Non-Hispanic	4,610,699	14,120	95.0%	306.2	16,038	94.2%	347.8	30,158	94.6%	654.1	152
American Indian/Alaska Native, only	12,512	17	0.1%	135.9	9	0.1%	71.9	26	0.1%	207.8	481
Asian, only	324,863	120	0.8%	36.9	68	0.4%	20.9	188	0.6%	57.9	1,727
Black, only	1,469,412	11,141	75.0%	758.2	12,914	75.9%	878.9	24,055	75.5%	1,637.0	61
Native Hawaiian/Other Pacific Islander, only	2,590	4	0.0%	154.4	3	0.0%	115.8	7	0.0%	270.3	370
White only	2,714,422	2,337	15.7%	86.1	2,243	13.2%	82.6	4,580	14.4%	168.7	592
Multiracial/Other	86,900	501	3.4%	576.5	801	4.7%	921.8	1,302	4.1%	1,498.3	66
TOTAL	5,038,007	14,859	100.0%	294.9	17,023	100.0%	337.9	31,882	100.0%	632.8	158

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			Ratio (1 in X)
		No.	%	Rate	No.	%	Rate	No.	%	Rate	
United States	4,117,970	13,192	88.8%	320.4	15,101	88.7%	366.7	28,293	88.7%	687.1	145
Foreign-born	798,470	1,034	7.0%	129.5	1,645	9.7%	206.0	2,679	8.4%	335.5	298
Africa	--	627	4.2%	--	1,017	6.0%	--	1,644	5.2%	--	--
Asia	--	59	0.4%	--	67	0.4%	--	126	0.4%	--	--
Caribbean	--	86	0.6%	--	133	0.8%	--	219	0.7%	--	--
Central America	--	150	1.0%	--	285	1.7%	--	435	1.4%	--	--
Other	--	112	0.8%	--	143	0.8%	--	255	0.8%	--	--
Unknown	--	633	4.3%	--	277	1.6%	--	910	2.9%	--	--
TOTAL	4,916,440	14,859	100.0%	302.2	17,023	100.0%	346.2	31,882	100.0%	648.5	154

* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

** Population data by country of birth are from the 2014 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2015.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	20,832	11,314	54.3%	519	13.2%	15.6%	18.9%	52.2%
Female	11,050	6,598	59.7%	580	11.9%	12.9%	16.3%	58.9%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	1,724	945	54.8%	497	13.2%	14.3%	22.5%	49.9%
Non-Hispanic	30,158	16,967	56.3%	541	12.7%	14.7%	17.7%	54.9%
American Indian/Alaska Native, only	26	***	***	***	***	***	***	***
Asian, only	188	102	54.3%	515	5.9%	16.7%	24.5%	52.9%
Black, only	24,055	13,673	56.8%	530	13.1%	15.1%	18.1%	53.6%
Native Hawaiian/Other Pacific Islander, only	7	***	***	***	***	***	***	***
White only	4,580	2,286	49.9%	609	9.9%	11.5%	15.2%	63.3%
Multiracial/Other	1,302	896	68.8%	532	13.5%	15.6%	17.3%	53.6%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	28,293	15,886	56.1%	540	13.0%	14.5%	17.6%	54.8%
Foreign-born	2,679	1,477	55.1%	523	9.6%	15.2%	22.2%	52.9%
Africa	1,644	952	57.9%	527	8.9%	15.3%	22.3%	53.5%
Asia	126	67	53.2%	495	10.4%	17.9%	23.9%	47.8%
Caribbean	219	112	51.1%	593	10.7%	9.8%	20.5%	58.9%
Central America	435	236	54.3%	463	12.7%	19.1%	23.3%	44.9%
Other	255	110	43.1%	583	7.3%	10.0%	20.0%	62.7%
Unknown	910	549	60.3%	534	13.7%	16.0%	16.4%	53.9%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
SEX AT BIRTH	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	20,832	10,660	51.2%	76.5%	13,634
Female	11,050	6,280	56.8%	75.1%	11,722
TOTAL	31,882	16,940	53.1%	76.0%	12,640

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
RACE/ETHNICITY	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	1,724	925	53.7%	80.2%	13,280
Non-Hispanic	30,158	16,015	53.1%	75.7%	12,605
American Indian/Alaska Native, only	26	***	***	***	***
Asian, only	188	101	53.7%	91.1%	61,330
Black, only	24,055	12,933	53.8%	74.0%	12,565
Native Hawaiian/Other Pacific Islander, only	7	***	***	***	***
White only	4,580	2,153	47.0%	84.1%	12,306
Multiracial/Other	1,302	816	62.7%	79.0%	17,001
TOTAL	31,882	16,940	53.1%	76.0%	12,640

ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
COUNTRY OF BIRTH	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	28,293	14,934	52.8%	75.1%	12,344
Foreign-born	2,679	1,457	54.4%	86.0%	16,294
Africa	1,644	930	56.6%	87.2%	10,120
Asia	126	67	53.2%	86.6%	61,330
Caribbean	219	109	49.8%	85.3%	36,916
Central America	435	238	54.7%	80.3%	16,740
Other	255	113	44.3%	88.5%	26,670
Unknown	910	549	60.3%	73.4%	20,311
TOTAL	31,882	16,940	53.1%	76.0%	12,640

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

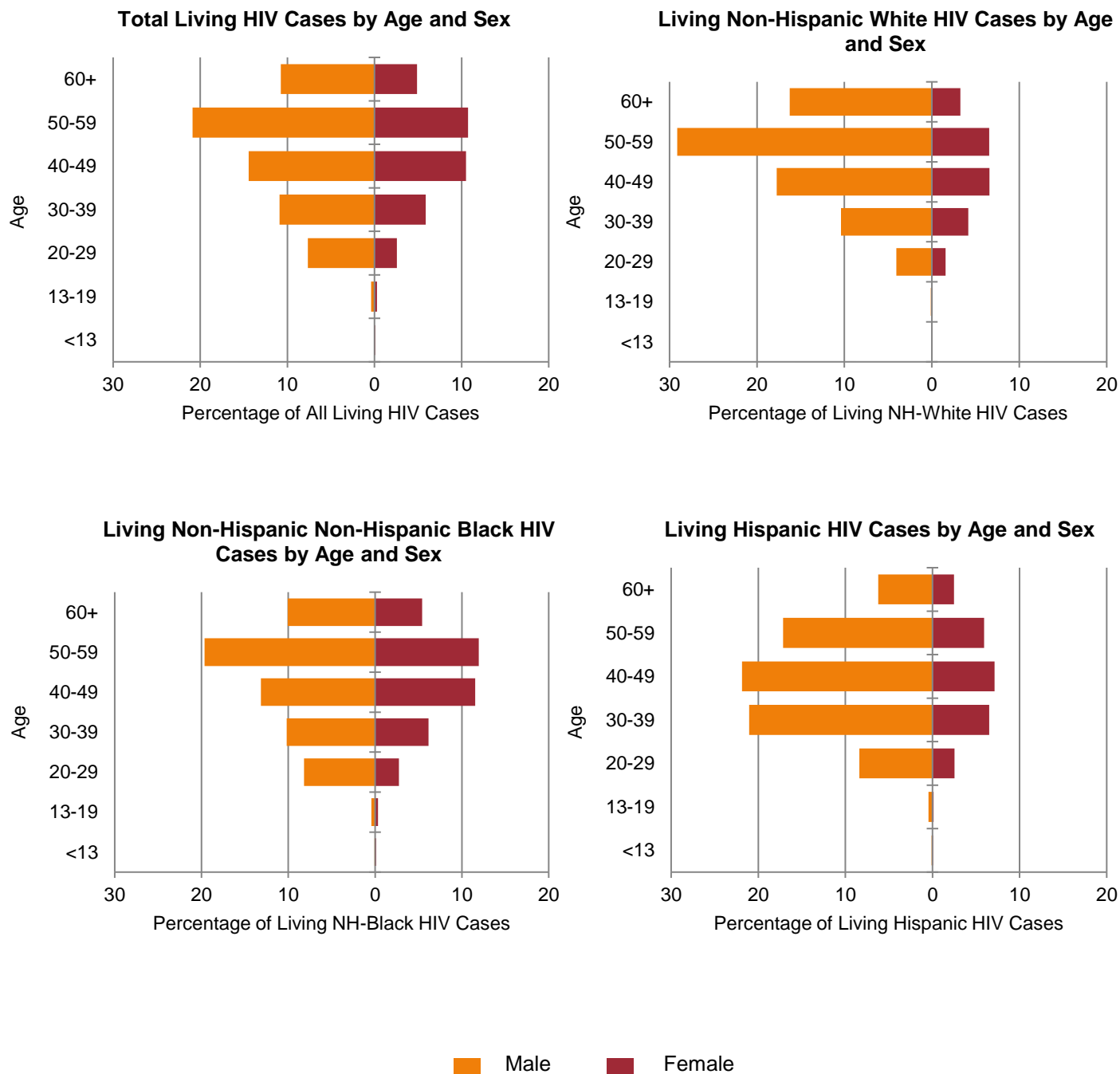
Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year, reported through 6/30/2016 of 200 copies per milliliter or greater.

Section VI – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

MALES						
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	74,269	151,303	210,701	57,679	493,951
	Cases	2	19	0	2	23
	Rate	2.7	12.6	0.0	3.5	4.7
	Ratio (1 in X)	37,134	7,963	--	28,839	21,476
13-19	Population	30,511	85,713	128,408	27,718	272,351
	Cases	8	103	5	4	120
	Rate	26.2	120.2	3.9	14.4	44.1
	Ratio (1 in X)	3,813	832	25,681	6,929	2,269
20-29	Population	49,423	129,223	198,509	37,500	414,655
	Cases	146	2,007	187	135	2,475
	Rate	295.4	1,553.1	94.2	360.0	596.9
	Ratio (1 in X)	338	64	1,061	277	167
30-39	Population	58,378	109,946	186,794	37,378	392,496
	Cases	366	2,493	480	188	3,527
	Rate	626.9	2,267.5	257.0	503.0	898.6
	Ratio (1 in X)	159	44	389	198	111
40-49	Population	42,384	112,894	195,236	34,649	385,163
	Cases	380	3,217	820	258	4,675
	Rate	896.6	2,849.6	420.0	744.6	1,213.8
	Ratio (1 in X)	111	35	238	134	82
50-59	Population	25,356	115,409	250,246	28,914	419,925
	Cases	298	4,809	1,346	306	6,759
	Rate	1,175.3	4,166.9	537.9	1,058.3	1,609.6
	Ratio (1 in X)	85	23	185	94	62
60+	Population	17,697	119,175	361,785	33,887	532,544
	Cases	108	2,466	751	156	3,481
	Rate	610.3	2,069.2	207.6	460.4	653.7
	Ratio (1 in X)	163	48	481	217	152
TOTAL MALES BY RACE/ETHNICITY	Population	298,018	823,663	1,531,679	257,725	2,911,085
	Cases	1,308	15,114	3,589	1,049	21,060
	Rate	438.9	1,835.0	234.3	407.0	723.4
	Ratio (1 in X)	227	54	426	245	138

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

FEMALES						
AGE ON 12/31/2015		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	74,269	151,303	210,701	57,679	493,951
	Cases	1	31	3	2	37
	Rate	1.3	20.5	1.4	3.5	7.5
	Ratio (1 in X)	74,269	4,880	70,233	28,839	13,350
13-19	Population	30,511	85,713	128,408	27,718	272,351
	Cases	2	82	4	2	90
	Rate	6.6	95.7	3.1	7.2	33.0
	Ratio (1 in X)	15,255	1,045	32,102	13,859	3,026
20-29	Population	49,423	129,223	198,509	37,500	414,655
	Cases	44	672	73	40	829
	Rate	89.0	520.0	36.8	106.7	199.9
	Ratio (1 in X)	1,123	192	2,719	937	500
30-39	Population	58,378	109,946	186,794	37,378	392,496
	Cases	113	1,508	193	87	1,901
	Rate	193.6	1,371.6	103.3	232.8	484.3
	Ratio (1 in X)	516	72	967	429	206
40-49	Population	42,384	112,894	195,236	34,649	385,163
	Cases	124	2,823	304	148	3,399
	Rate	292.6	2,500.6	155.7	427.1	882.5
	Ratio (1 in X)	341	39	642	234	113
50-59	Population	25,356	115,409	250,246	28,914	419,925
	Cases	103	2,920	303	152	3,478
	Rate	406.2	2,530.1	121.1	525.7	828.2
	Ratio (1 in X)	246	39	825	190	120
60+	Population	17,697	119,175	361,785	33,887	532,544
	Cases	43	1,323	151	64	1,581
	Rate	243.0	1,110.1	41.7	188.9	296.9
	Ratio (1 in X)	411	90	2,395	529	336
TOTAL FEMALES BY RACE/ETHNICITY	Population	298,018	823,663	1,531,679	257,725	2,911,085
	Cases	430	9,359	1,031	495	11,315
	Rate	144.3	1,136.3	67.3	192.1	388.7
	Ratio (1 in X)	693	88	1,485	520	257

Age on [date]: Age group of living cases on the specified date.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VII – HIV Exposure Category

Table 18 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	803	100.0%	697	86.8%	176	21.9%	693	86.3%	386
Men who have Sex with Men (MSM)	465	57.9%	403	86.7%	83	17.8%	396	85.2%	403
Injection Drug Users (IDU)	34	4.2%	***	***	***	***	28	82.4%	451
Men who have Sex with Men and Inject Drugs (MSM/IDU)	7	0.9%	***	***	***	***	6	85.7%	634
Heterosexual Exposure (HET)	297	37.0%	262	88.2%	84	28.3%	263	88.6%	343
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure*	531	39.8%	418	78.7%	139	26.2%	393	74.0%	351
TOTAL	1,334	100.0%	1,115	83.6%	315	23.6%	1,086	81.4%	373

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	598	100.0%	516	86.3%	128	21.4%	513	85.8%	378
Men who have Sex with Men (MSM)	465	77.8%	403	86.7%	83	17.8%	396	85.2%	403
Injection Drug Users (IDU)	19	3.2%	***	***	***	***	16	84.2%	345
Men who have Sex with Men and Inject Drugs (MSM/IDU)	7	1.2%	***	***	***	***	6	85.7%	634
Heterosexual Exposure (HET)	107	17.9%	93	86.9%	37	34.6%	95	88.8%	291
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure	368		289	78.5%	101	27.4%	270	73.4%	349
TOTAL	966		805	83.3%	229	23.7%	783	81.1%	371

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	% of Total with Exposure	No. Linked to Care	% Linked to Care	No. of Late Diagnoses	% Late Diagnosis	First CD4 Test Result		
							No. with Test	% with Test	Median Count
With Exposure**	205	100.0%	181	88.3%	48	23.4%	180	87.8%	401
Injection Drug Users (IDU)	15	7.3%	12	80.0%	***	***	12	80.0%	497
Heterosexual Exposure (HET)	190	92.7%	169	88.9%	***	***	168	88.4%	387
Other Exposure	0	0.0%	--	--	--	--	--	--	--
No Reported Exposure*	163		129	79.1%	38	23.3%	123	75.5%	353
TOTAL	368		310	84.2%	86	23.4%	303	82.3%	386

* Includes 5 new HIV diagnoses with Presumed Female Heterosexual exposure

** 2014-2015 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 19 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	443	100.0%	5.1	43.3%
Men who have Sex with Men (MSM)	168	37.9%	3.6	51.8%
Injection Drug Users (IDU)	72	16.3%	8.1	19.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	9	2.0%	14.6	11.1%
Heterosexual Exposure (HET)	194	43.8%	4.7	46.4%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	197		2.5	70.1%
TOTAL	640		4.3	51.6%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	302	100.0%	4.6	47.0%
Men who have Sex with Men (MSM)	168	55.6%	3.6	51.8%
Injection Drug Users (IDU)	45	14.9%	8.3	24.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	9	3.0%	14.6	11.1%
Heterosexual Exposure (HET)	80	26.5%	3.5	53.8%
Other Exposures	0	0.0%	--	--
No Reported Exposure	135		2	74.1%
TOTAL	437		3.8	55.4%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT AIDS DIAGNOSES			
	No.	% of Total with Exposure	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
With Exposure**	141	100.0%	6	35.5%
Injection Drug Users (IDU)	27	19.1%	7.8	11.1%
Heterosexual Exposure (HET)	114	80.9%	5.6	41.2%
Other Exposures	0	0.0%	--	--
No Reported Exposure*	62		3.5	61.3%
TOTAL	203		5.3	43.3%

* Includes 3 new AIDS diagnoses with Presumed Female Heterosexual exposure

** 2014-2015 reported HIV exposure data are preliminary.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	10,640	100.0%	14,816	100.0%	25,456	100.0%
Men who have Sex with Men (MSM)	4,640	43.6%	4,466	30.1%	9,106	35.8%
Injection Drug Users (IDU)	1,810	17.0%	4,206	28.4%	6,016	23.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	261	2.5%	664	4.5%	925	3.6%
Heterosexual Exposure (HET)	3,901	36.7%	5,419	36.6%	9,320	36.6%
Other Exposures	28	0.3%	61	0.4%	89	0.3%
No Reported Exposure*	4,219		2,207		6,426	
TOTAL	14,859		17,023		31,882	

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	7,285	100.0%	9,760	100.0%	17,045	100.0%
Men who have Sex with Men (MSM)	4,640	63.7%	4,466	45.8%	9,106	53.4%
Injection Drug Users (IDU)	1,111	15.3%	2,650	27.2%	3,761	22.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	261	3.6%	664	6.8%	925	5.4%
Heterosexual Exposure (HET)	1,260	17.3%	1,948	20.0%	3,208	18.8%
Other Exposures	13	0.2%	32	0.3%	45	0.3%
No Reported Exposure	2,468		1,319		3,787	
TOTAL	9,753		11,079		20,832	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS		ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS		ADULT/ADOLESCENT TOTAL LIVING HIV CASES	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	3,355	100.0%	5,056	100.0%	8,411	100.0%
Injection Drug Users (IDU)	699	20.8%	1,556	30.8%	2,255	26.8%
Heterosexual Exposure (HET)	2,641	78.7%	3,471	68.7%	6,112	72.7%
Other Exposures	15	0.4%	29	0.6%	44	0.5%
No Reported Exposure*	1,751		888		2,639	
TOTAL	5,106		5,944		11,050	

* Includes 95 HIV cases without AIDS and 71 HIV cases with AIDS with Presumed Female Heterosexual exposure

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	1,418	100.0%	19,023	100.0%	3,727	100.0%
Men who have Sex with Men (MSM)	636	44.9%	5,732	30.1%	2,194	58.9%
Injection Drug Users (IDU)	128	9.0%	4,947	26.0%	652	17.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	35	2.5%	684	3.6%	148	4.0%
Heterosexual Exposure (HET)	617	43.5%	7,605	40.0%	705	18.9%
Other Exposures	2	0.1%	55	0.3%	28	0.8%
No Reported Exposure*	306		5,032		853	
TOTAL	1,724		24,055		4,580	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	1,081	100.0%	12,111	100.0%	2,968	100.0%
Men who have Sex with Men (MSM)	636	58.8%	5,732	47.3%	2,194	73.9%
Injection Drug Users (IDU)	88	8.1%	3,179	26.2%	345	11.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	35	3.2%	684	5.6%	148	5.0%
Heterosexual Exposure (HET)	321	29.7%	2,495	20.6%	260	8.8%
Other Exposures	1	0.1%	21	0.2%	21	0.7%
No Reported Exposure	220		2,815		600	
TOTAL	1,301		14,926		3,568	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	337	100.0%	6,912	100.0%	759	100.0%
Injection Drug Users (IDU)	40	11.9%	1,768	25.6%	307	40.4%
Heterosexual Exposure (HET)	296	87.8%	5,110	73.9%	445	58.6%
Other Exposures	1	0.3%	34	0.5%	7	0.9%
No Reported Exposure*	86		2,217		253	
TOTAL	423		9,129		1,012	

* Includes 7 Hispanic cases, 148 non-Hispanic black cases, and 7 non-Hispanic white cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	25,456	15,083	59.3%	538	12.7%	14.6%	18.1%	54.6%
Men who have Sex with Men (MSM)	9,106	5,082	55.8%	559	10.1%	13.4%	18.7%	57.8%
Injection Drug Users (IDU)	6,016	3,542	58.9%	482	17.1%	17.4%	17.5%	48.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	925	546	59.0%	476	16.7%	18.9%	16.5%	48.0%
Heterosexual Exposure (HET)	9,320	5,863	62.9%	556	11.9%	13.6%	17.9%	56.6%
Other Exposures	89	50	56.2%	450	20.0%	12.0%	28.0%	40.0%
No Reported Exposure*	6,426	2,829	44.0%	540	12.9%	14.7%	17.5%	54.9%
TOTAL	31,882	17,912	56.2%	539	12.7%	14.6%	18.0%	54.7%

* Includes 166 cases with Presumed Female Heterosexual exposure

Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	25,456	14,144	55.6%	76.2%	12,243
Men who have Sex with Men (MSM)	9,106	4,994	54.8%	78.2%	13,966
Injection Drug Users (IDU)	6,016	3,022	50.2%	70.4%	12,323
Men who have Sex with Men and Inject Drugs (MSM/IDU)	925	488	52.8%	73.6%	8,714
Heterosexual Exposure (HET)	9,320	5,596	60.0%	77.8%	10,894
Other Exposures	89	44	49.4%	68.2%	25,756
No Reported Exposure*	6,426	2,796	43.5%	75.0%	14,855
TOTAL	31,882	16,940	53.1%	76.0%	12,640

* Includes 166 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

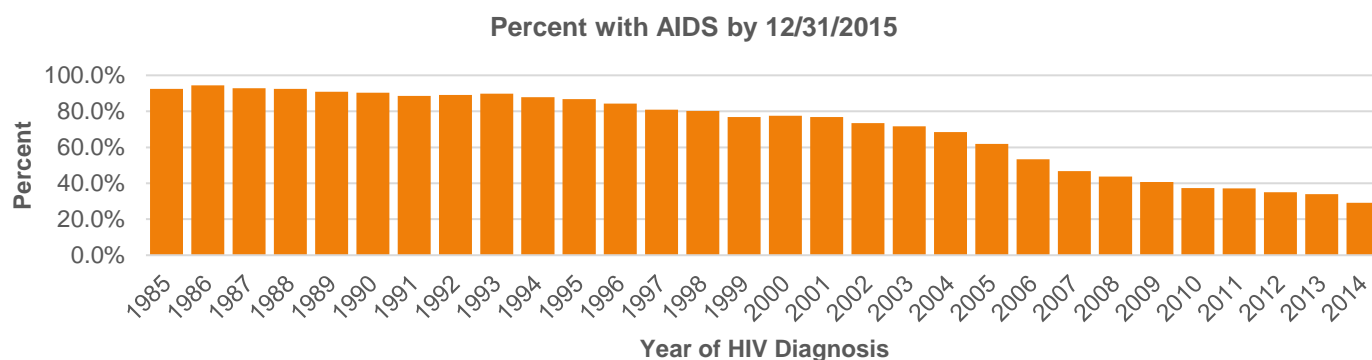
Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Section VIII – Disease Progression and Mortality

Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2014, Reported through 6/30/2016

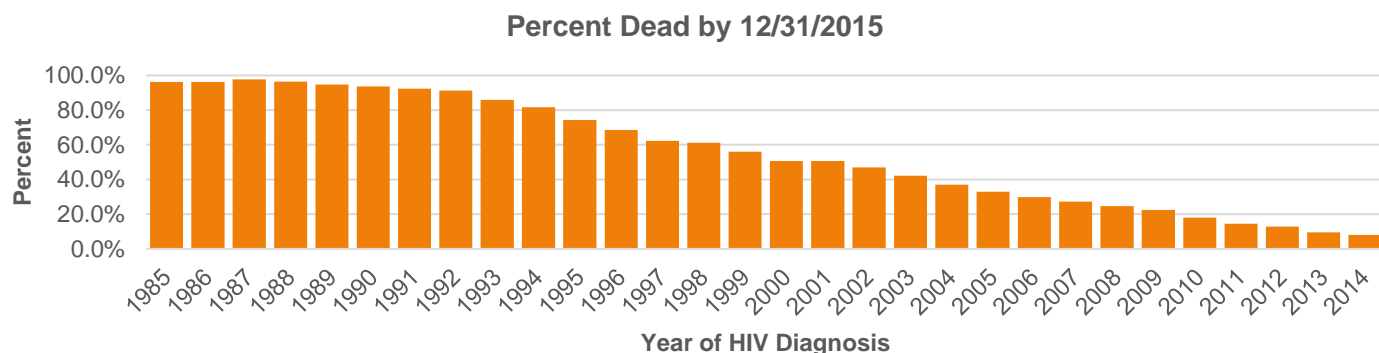
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2014 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2015 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2015, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	353	337	95.5%	6.8	39.7%	39.7%	43.1%	67.1%
1985	691	639	92.5%	6.3	31.4%	32.9%	39.9%	74.8%
1986	917	866	94.4%	5.2	36.6%	37.6%	49.1%	81.7%
1987	1,240	1,151	92.8%	4.4	38.5%	40.8%	57.4%	83.2%
1988	1,667	1,541	92.4%	3.8	40.9%	44.6%	65.7%	85.4%
1989	2,143	1,947	90.9%	3.5	41.0%	45.6%	68.6%	84.1%
1990	2,210	1,995	90.3%	3.0	44.4%	51.3%	72.6%	84.8%
1991	2,566	2,270	88.5%	2.8	46.1%	54.9%	73.1%	82.7%
1992	2,433	2,167	89.1%	2.6	49.6%	58.0%	74.1%	82.7%
1993	2,177	1,954	89.8%	2.2	55.1%	63.5%	77.0%	85.3%
1994	2,007	1,763	87.8%	2.2	56.8%	64.1%	75.1%	83.2%
1995	2,018	1,752	86.8%	2.2	58.0%	63.5%	72.4%	82.2%
1996	1,857	1,566	84.3%	2.0	59.0%	63.4%	71.2%	80.3%
1997	1,892	1,531	80.9%	2.0	56.5%	60.8%	68.7%	76.7%
1998	1,863	1,494	80.2%	2.0	56.0%	59.7%	67.6%	75.8%
1999	1,806	1,387	76.8%	1.7	56.5%	60.4%	67.3%	73.8%
2000	1,714	1,328	77.5%	1.7	55.7%	59.5%	68.3%	74.8%
2001	1,857	1,427	76.8%	1.5	57.1%	60.5%	69.2%	74.3%
2002	2,112	1,552	73.5%	1.5	55.5%	59.2%	65.8%	71.2%
2003	1,966	1,410	71.7%	1.3	55.5%	58.6%	64.0%	70.2%
2004	2,037	1,394	68.4%	1.4	52.0%	55.1%	60.5%	67.1%
2005	2,108	1,302	61.8%	1.3	47.4%	49.9%	55.4%	61.4%
2006	2,214	1,182	53.4%	1.4	38.8%	41.1%	47.7%	--
2007	2,274	1,064	46.8%	1.6	31.7%	34.0%	41.1%	--
2008	2,159	944	43.7%	1.3	30.5%	33.4%	40.2%	--
2009	1,777	724	40.7%	1.2	29.0%	31.4%	38.2%	--
2010	1,821	679	37.3%	1.0	27.4%	30.3%	35.8%	--
2011	1,500	557	37.1%	0.6	30.0%	33.5%	--	--
2012	1,390	488	35.1%	0.6	29.7%	32.2%	--	--
2013	1,317	448	34.0%	0.3	31.2%	33.0%	--	--
2014	1,322	385	29.1%	0.3	26.6%	--	--	--
TOTAL	55,408	39,244	70.8%	2.3	45.2%	49.4%	59.1%	67.4%

Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2014, Reported through 6/30/2016

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/14 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2015 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2015, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016



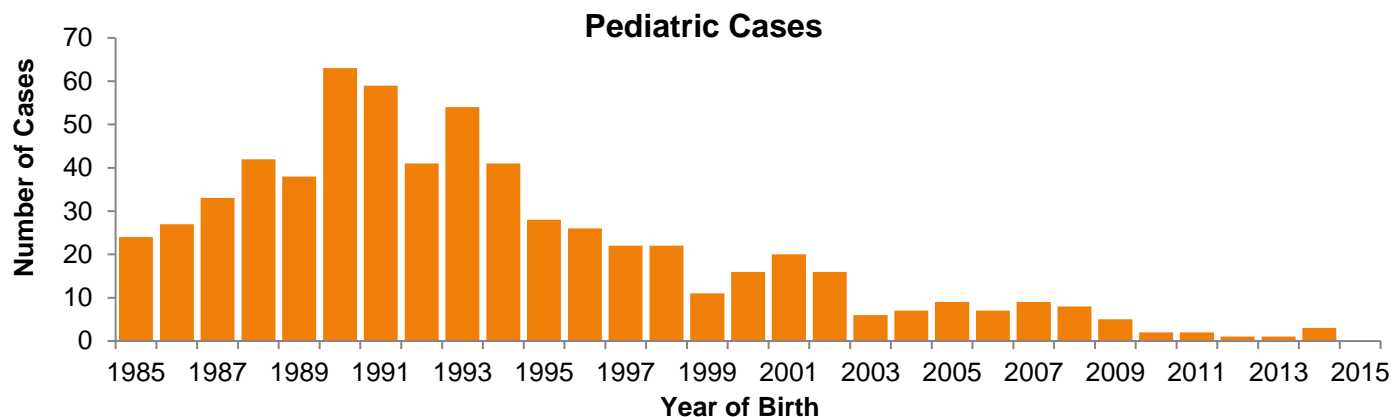
YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	145	140	96.6%	1.7	42.1%	20.7%	10.3%	7.6%
1985	209	201	96.2%	1.6	42.6%	19.6%	11.0%	5.7%
1986	315	303	96.2%	2.1	50.8%	32.7%	13.0%	8.3%
1987	494	483	97.8%	2.1	56.9%	31.8%	11.1%	5.7%
1988	692	667	96.4%	2.2	60.4%	37.7%	13.7%	6.4%
1989	923	874	94.7%	2.6	63.9%	43.6%	17.7%	9.5%
1990	1,173	1,099	93.7%	2.9	66.5%	47.7%	21.2%	12.0%
1991	1,464	1,351	92.3%	2.7	68.2%	48.0%	18.7%	12.6%
1992	1,952	1,780	91.2%	3.1	71.7%	50.4%	22.2%	16.2%
1993	2,254	1,937	85.9%	3.6	77.0%	56.3%	33.1%	22.4%
1994	2,172	1,773	81.6%	3.8	77.8%	58.9%	39.8%	26.7%
1995	2,172	1,614	74.3%	4.6	78.2%	67.1%	51.3%	37.3%
1996	1,950	1,336	68.5%	5.2	82.3%	75.6%	60.3%	44.1%
1997	1,686	1,051	62.3%	5.0	84.9%	77.8%	63.2%	48.5%
1998	1,544	943	61.1%	5.2	86.9%	80.7%	65.9%	49.3%
1999	1,542	864	56.0%	4.8	87.4%	80.9%	66.7%	52.0%
2000	1,424	721	50.6%	4.8	88.1%	83.6%	70.0%	56.5%
2001	1,559	791	50.7%	4.2	86.5%	79.6%	66.6%	55.2%
2002	1,622	760	46.9%	4.4	88.0%	82.9%	71.1%	59.6%
2003	1,574	663	42.1%	3.5	85.3%	80.2%	70.4%	60.8%
2004	1,540	570	37.0%	3.6	88.4%	84.0%	74.8%	65.1%
2005	1,484	488	32.9%	3.1	88.5%	84.6%	75.7%	67.5%
2006	1,314	393	29.9%	3.1	89.6%	85.7%	77.6%	--
2007	1,090	297	27.2%	2.6	89.1%	86.1%	79.1%	--
2008	1,040	257	24.7%	2.1	88.8%	85.5%	78.8%	--
2009	874	197	22.5%	2.0	90.2%	87.0%	79.4%	--
2010	1,012	183	18.1%	1.8	91.6%	88.6%	83.5%	--
2011	831	121	14.6%	1.6	93.5%	90.9%	--	--
2012	900	116	12.9%	1.0	91.8%	89.8%	--	--
2013	857	82	9.6%	0.7	93.5%	91.1%	--	--
2014*	666	53	8.0%	0.5	93.2%	--	--	--
TOTAL	38,474	22,108	57.5%	3.6	81.8%	71.9%	57.3%	48.0%

*2014 AIDS deaths are preliminary.

Section IX – Pediatric Cases

Figure 12 – Trends in Pediatric HIV Cases, 1985-2015, Reported through 6/30/2016

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2015, as Reported by Name through 6/30/2016



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES				PEDIATRIC TOTAL LIVING HIV CASES
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	54	4	2	0	
1985	24	14	8	2	17
1986	27	14	6	4	27
1987	33	21	14	5	43
1988	42	29	19	6	66
1989	38	34	25	8	92
1990	63	52	22	9	135
1991	59	54	36	12	177
1992	41	62	37	12	226
1993	54	55	35	16	265
1994	41	41	30	16	289
1995	28	29	22	20	297
1996	26	36	24	19	314
1997	22	16	12	6	324
1998	22	20	10	6	338
1999	11	29	14	6	359
2000	16	12	5	0	371
2001	20	14	12	5	379
2002	16	20	11	4	394
2003	6	5	2	6	393
2004	7	10	4	6	397
2005	9	9	5	2	403
2006	7	16	6	4	416
2007	9	54	7	5	465
2008	8	14	10	3	477
2009	5	10	3	2	485
2010	2	4	9	6	485
2011	2	7	7	4	490
2012	1	3	4	4	490
2013	1	3	11	2	492
2014	3	6	6	1	497
2015	0	0	7	3	493
TOTAL	697	697	425	204	

Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Allegany	1	0.2%
Anne Arundel	22	4.5%
Baltimore City	217	44.0%
Baltimore	49	9.9%
Calvert	2	0.4%
Caroline	1	0.2%
Carroll	3	0.6%
Cecil	2	0.4%
Charles	4	0.8%
Dorchester	4	0.8%
Frederick	6	1.2%
Garrett	0	0.0%
Harford	14	2.8%
Howard	7	1.4%
Kent	1	0.2%
Montgomery	45	9.1%
Prince George's	105	21.3%
Queen Anne's	0	0.0%
Saint Mary's	1	0.2%
Somerset	1	0.2%
Talbot	2	0.4%
Washington	2	0.4%
Wicomico	1	0.2%
Worcester	1	0.2%
Corrections	2	0.4%
TOTAL	493	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	265	53.8%
Female	228	46.2%
TOTAL	493	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	14	2.8%
Non-Hispanic	479	97.2%
American Indian/ Alaska Native, only	1	0.2%
Asian, only	1	0.2%
Black, only	418	84.8%
Native Hawaiian/Other Pacific Islander, only	19	3.9%
White, only	40	8.1%
Multiracial/Other	0	0.0%
TOTAL	493	100.0%

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 26 – Perinatal HIV Transmissions by Year of Birth, 2005-2015

YEAR OF BIRTH	LIVE BIRTHS	WOMEN OF CHILDBEARING AGE TOTAL LIVING HIV CASES	REPORTED PERINATAL HIV EXPOSURES	CONFIRMED PERINATAL HIV TRANSMISSIONS	PERINATAL HIV TRANSMISSION RATE
	No.	No.	No.	No.	%
2005	74,880	6,437	140	4	2.9%
2006	77,430	6,784	178	5	2.8%
2007	78,057	7,144	176	6	3.4%
2008	77,268	7,368	206	6	2.9%
2009	74,999	7,351	171	3	1.8%
2010	73,783	7,216	177	4	2.3%
2011	73,052	6,763	174	2	1.1%
2012	72,751	7,917	183	1	0.5%
2013	71,806	7,702	165	1	0.6%
2014	73,588	7,125	193*	3	1.6%
2015	73,548	7,042	127*	0	0.0%
TOTAL	747,614	--	1,890	35	1.9%

*2014 - 2015 reported perinatal HIV exposure and confirmed perinatal HIV transmissions data are preliminary.

Live births from [Maryland Vital Statistics Annual Report 2014](#).

Women of childbearing age (ages 13-49) total living HIV cases and reported perinatal HIV exposures from [Maryland Enhanced HIV/AIDS Reporting System, December 31, 2015](#).

Live Births: Infants born alive in the general population.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) reported through June 30, 2016.

Reported Perinatal HIV Exposures: Reported infants born to an HIV positive mother during the specified year.

Confirmed Perinatal HIV Transmissions: Reported infants born to an HIV positive mother, with a confirmed HIV diagnosis.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

Confirmed Perinatal HIV Transmissions: Reported babies born to an HIV positive mother, with a confirmed HIV diagnosis.

Current Residence: Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

First CD4 Test Result: First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

Jurisdiction of Residence: Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Live Births: Babies born alive in the general population.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis (to AIDS Diagnosis): Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median: The measure of central location, which divides a set of data into two equal parts.

Median Count (First CD4): Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Median Count (Recent CD4): Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Median Unsuppressed (Viral Load): Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

Number Linked to Care: Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

Number of Late HIV diagnosis (for HIV diagnoses): Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

Pediatric Reported HIV Diagnoses: Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis (for AIDS diagnoses): Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Late HIV Diagnosis (for HIV diagnoses): Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Percent Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Percent Suppressed (Viral Load): Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2015.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Rate: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures.

Population: Population estimate for 7/1/2015.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2015.

Rate: A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year, reported through 6/30/2016.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported babies born to an HIV positive mother during the specified year.

Retained in HIV Care: HIV Diagnosed with a CD4 test result measured in the specified year, reported through 6/30/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Women of Childbearing Age Total Living HIV cases: Reported HIV diagnoses among women of childbearing age (13-49 years old) on December 31st of the specified year